

ACCEPTED
COMMENTS
in EPA Letter Dated:

NOV 24 1982

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA R

1187-67

DIRECTIONS FOR APPLYING **LETHALAIRE** A-30

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT
IN A MANNER INCONSISTENT WITH ITS LABELING

IMPORTANT — First read the precautions printed on Right Panel of Label.

ENTOMOLOGICAL RECOMMENDATIONS: When applied as an aerosol, **LETHALAIRE A-30** is recommended for use in warehouses, tobacco warehouses and factories for the control of the tobacco moth, *Ephestia kuehniella* (Hbn.) and the cigarette beetle, *Lasioderma serricorne* (F.), flying and crawling insects.

GENERAL INFORMATION: **LETHALAIRE A-30** applied as an aerosol in warehouse or factory areas kills by contact, and the deposit of insecticide releases a vapor which continues to kill for three to four days. The insecticide volatilizes completely in about two weeks. The vapor will give good control of the tobacco moth and other flying insects. Will also kill exposed adult cigarette beetles, roaches, exposed crawling insects and young larvae, also destroying the viability of eggs in the later stages of incubation if they are exposed. Because the vapor emitted from this material will kill for several days, it is more effective than a contact insecticide which kills only during the few minutes its particles are suspended in the air.

Tobacco insects are most active between 5:00 P.M. and midnight. For this reason, aerosols applied between 5:00 P.M. and midnight give best results. Large quantities of tobacco may be treated rapidly and with relative economy.

Cigarettes made of cut cigarette tobacco after prolonged exposure to an atmosphere saturated with DDVP vapor had normal smoking flavor.

PREPARATION OF TOBACCO FACTORY AND/OR WAREHOUSE AREAS: The preparation of factory or warehouse areas is based primarily on the number of cubic feet of area to be treated. Several **LETHALAIRE A-30** units can be mounted and wired in series. This enables two or more units to be activated simultaneously through the use of a single electrical switch.

PREPARATION OF NON-FOOD FACTORY OR SEED WAREHOUSE AREAS: The preparation of the non-food factory or seed warehouse area is based primarily on the number of cubic feet of area to be treated. Several **LETHALAIRE A-30** units can be mounted and wired in series. This enables two or more units to be activated simultaneously through the use of a single electrical switch.

FLYING INSECTS: (Flies, wasps, gnats, hornets, almond moth, Indian meal moth, (chocolate) tobacco moth, clothes moth and other small flying moths. The number of units is based on an application rate of 2.5 grams of **LETHALAIRE A-30** per 1000 cubic feet (0.5 gram of DDVP per 1000 cubic feet). A single automatic **LETHALAIRE A-30** unit activated for a period of 45 seconds would treat approximately 50,000 cubic feet of area.

STORED PRODUCT AND CRAWLING INSECTS: (Flour beetles, saw toothed grain beetle, lesser grain borer, cigarette beetle, ants, cockroaches, silverfish, crickets and carpet beetles). The number of units is based on an application rate of 5.0 grams of **LETHALAIRE A-30** per 1000 cubic feet (1 gram of DDVP per 1000 cubic feet). A single automatic **LETHALAIRE A-30** unit activated for a period of 1.5 minutes would treat approximately 50,000 cubic feet of area.

Treated areas should not be entered for a period of four hours after application or until aerosol particles have settled.

NON-AIR-CONDITIONED FACTORY AREAS: The number of units is based on an application rate of 2.5 grams of **LETHALAIRE A-30** per 1000 cubic feet (0.5 gram of DDVP per 1000 cubic feet). A single automatic **LETHALAIRE A-30** unit activated for a period of 45 seconds would treat approximately 50,000 cubic feet of area.

AIR-CONDITIONED FACTORY AREAS: The number of units is based on an application rate of 5.0 grams of **LETHALAIRE A-30** per 1000 cubic feet (1 gram of DDVP per 1000 cubic feet).

A single automatic **LETHALAIRE A-30** unit activated for a period of 1.5 minutes would treat approximately 50,000 cubic feet of area.

Treated warehouses should not be entered for a period of four hours after application or until aerosol particles have settled.

The mechanical equipment used in the application of this insecticidal composition is covered by United States Patent Number 3,209,950, owned by Virginia Chemicals Inc.

LOT
NO.

27-322 782V

DOT SHIPPING NAME
COMPRESSED GAS, n.o.s.

LETHALAIRE

AN AEROSOL INSECTICIDE CONTAINING
20% VAPONA*
FOR THE CONTROL OF TOBACCO INSECTS.
FLYING AND CRAWLING INSECTS.
NOT FOR USE WHERE FOOD AND FEED PRODUCTS
ARE STORED OR EXPOSED

ACTIVE INGREDIENTS:

2,2-Dichlorovinyl Dimethyl Phosphate (DDVP)

Related Compounds

INERT INGREDIENTS



**KEEP OUT OF REACH OF CHILDREN
VAPOR EXTREMELY HAZARDOUS
DANGER! POISON**

SEE RIGHT PANEL FOR ADDITIONAL PRECAUTIONS

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

Placard must be placed outside of treated area. Poisonous if swallowed, inhaled or all of label carefully. Use only as directed. Keep away from heat and open flame. Do not get vapor or liquid on skin. Do not get vapor or liquid in eyes. Keep away from feed and clothing.

ALWAYS USE AN APPROVED GAS MASK WHEN APPLYING: Wear a pesticide respirator approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) or the Institute for Occupational Safety and Health under the provisions of 30 CFR Part 115.

PHYSICAL OR CHEMICAL HAZARDS

Contents under pressure. Do not use or store near heat or open flame. Do not puncture. Exposure to temperatures above 130°F may cause bursting.

THIS CYLINDER IS REFILLABLE
Return to Manufacturer for Deposit or Exchange when Empty

E.P.A. EST. 1187-VA-1

E.P.A. Reg. No. 1187-

A Product of

VIRGINIA CHEMICALS INC. PORTSMOUTH, VA.



ACCEPTED
COMMENTS
in EPA Letter Dated:

NOV 24 1982

A-30 Drops out of RED

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA R

1117-67

APPLYING LETHALAIRE A-30

ISOLATION OF FEDERAL LAW TO USE THIS PRODUCT
A MANNER INCONSISTENT WITH ITS LABELING

Read the precautions printed on Right Panel of Label.

INDICATIONS: When applied as an aerosol, LETHALAIRE A-30 is recommended
for warehouses and factories for the control of the tobacco moth, *Ephestia elutella*
(F.), *Lasioderma serricorne* (F.), flying and crawling insects

LETHALAIRE A-30 applied as an aerosol in warehouse or factory areas kills by
contact. It releases a vapor which continues to kill for three to four days. The
vapor will give good control of the tobacco moth and
exposed adult cigarette beetles, roaches, exposed crawling insects and young
eggs in the later stages of incubation if they are exposed. Because the
vapor will kill for several days, it is more effective than a contact insecticide which kills
particles are suspended in the air
between 5:00 P.M. and midnight. For this reason, aerosols applied between 5:00
P.M. and midnight. Large quantities of tobacco may be treated rapidly and with relative
ease after prolonged exposure to an atmosphere saturated with DDVP vapor

FACTORY AND/OR WAREHOUSE AREAS: The preparation of factory or
warehouse on the number of cubic feet of area to be treated. Several LETHALAIRE A-30
units in series. This enables two or more units to be activated simultaneously through
a single switch.

FACTORY OR SEED WAREHOUSE AREAS: The preparation of the non-food
area is based primarily on the number of cubic feet of area to be treated. Several
units are mounted and wired in series. This enables two or more units to be activated
by a single electrical switch.

FLYING INSECTS: (Flour beetles, saw toothed grain beetle, lesser grain borer,
crickets, silverfish, crickets and carpet beetles). The number of units is based on an
application rate of 2.5 grams of DDVP per 1000 cubic feet. A single automatic LETHALAIRE
A-30 unit activated for a period of 45 seconds would treat approximately 50,000 cubic feet of area.

CRAWLING INSECTS: (Flour beetles, saw toothed grain beetle, lesser grain borer,
crickets, silverfish, crickets and carpet beetles). The number of units is based on an
application rate of 2.5 grams of DDVP per 1000 cubic feet. A single automatic LETHALAIRE
A-30 unit activated for a period of 1.5 minutes would treat approximately 50,000
cubic feet of area.

entered for a period of four hours after application or until aerosol particles have

FACTORY AREAS: The number of units is based on an application rate of 2.5 grams
of DDVP per 1000 cubic feet. A single automatic LETHALAIRE A-30 unit activated for a period of 45 seconds would treat approximately 50,000 cubic feet of area.

WAREHOUSE AREAS: The number of units is based on an application rate of 5.0 grams
of DDVP per 1000 cubic feet. A single automatic LETHALAIRE A-30 unit activated for a period of 1.5 minutes would treat approximately 50,000
cubic feet of area.

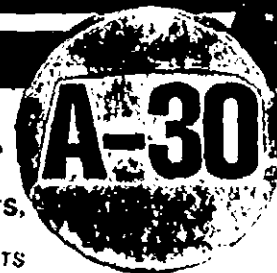
entered for a period of four hours after application or until aerosol particles have

in the application of this insecticidal composition is covered by United States
Patent 3,440,000 issued to Virginia Chemicals Inc.

DOT SHIPPING NAME
COMPRESSED GAS, n.o.s.

LETHALAIRE

AN AEROSOL INSECTICIDE CONTAINING
20% VAPONA*
FOR THE CONTROL OF TOBACCO INSECTS,
FLYING AND CRAWLING INSECTS.
NOT FOR USE WHERE FOOD AND FEED PRODUCTS
ARE STORED OR EXPOSED



NET WT.
30 LBS.
(13.6 Kg)

* Shell Registered Trademark	
ACTIVE INGREDIENTS:	By Weight
2,2-Dichlorovinyl Dimethyl Phosphate (DDVP)	18.6%
Related Compounds	1.4%
INERT INGREDIENTS	80.0%
TOTAL	100.0%



RED
PRINT

SEE RIGHT PANEL FOR ADDITIONAL PRECAUTIONS

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

Placard must be placed outside of treated area. Poisonous if swallowed, inhaled or absorbed through skin. Read
all of label carefully. Use only as directed. Keep away from heat and open flame. Do not breathe vapor. Do not get
vapor or liquid on skin. Do not get vapor or liquid in eyes. Keep away from feed and food products. Do not get on
clothing.

ALWAYS USE AN APPROVED GAS MASK WHEN APPLYING: Wear a pesticide respirator jointly approved by
the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National
Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11.

PHYSICAL OR CHEMICAL HAZARDS

Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container.
Exposure to temperatures above 130°F may cause bursting.

THIS CYLINDER IS REFILLABLE

Return to Manufacturer for Deposit or Exchange when Empty.

E.P.A. EST. 1187-VA-1

E.P.A. Reg. No. 1187-67

A Product of

VIRGINIA CHEMICALS INC. PORTSMOUTH, VIRGINIA



A-30 drops out of RED

VALAIRE

CONTAINING **ONA* A-30**

NET WT. 30 LBS. (13.6 Kg)

NET WT. 30 LBS. (13.6 Kg)

By Weight

DDVP	18.6%
	1.4%
	80.0%
TOTAL	100.0%

OF REACH OF CHILDREN
EXTREMELY HAZARDOUS
DANGER! POISON

FOR ADDITIONAL PRECAUTIONS

TO HUMANS AND DOMESTIC ANIMALS

When Applying: Wear a pesticide respirator jointly approved by the U.S. Bureau of Mines and by the National Institute for Occupational Safety and Health for DDVP Protection.

WHEN APPLYING: Wear a pesticide respirator jointly approved by the U.S. Bureau of Mines and by the National Institute for Occupational Safety and Health for DDVP Protection.

CAUTION: Do not use or store near heat or open flame. Do not breathe vapor. Do not get in eyes. Keep away from feed and food products. Do not get on clothing.

CYLINDER IS REFILLABLE. Return to manufacturer for deposit or exchange when empty.

VA-1 E.P.A. Reg. No. 1187-67

A Product of

ALS INC. PORTSMOUTH, VIRGINIA

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
Storage: Do not use or store near heat or open flame.
Disposal: This cylinder is refillable; return to manufacturer for deposit or exchange when empty.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

DO NOT CONTACT THE SKIN. Gloves impervious to DDVP should be worn. All skin surfaces should be completely covered with protective clothing during application.
DO NOT INHALE DDVP MIST. Wear a pesticide respirator jointly approved by the Mining Enforcement Safety Administration and by the National Institute for Occupational Safety and Health for DDVP Protection.
ADEQUATE PERSONAL HYGIENE AND CLEANLINESS are necessary. After applying remove clothing and bathe thoroughly with warm water and soap. Wash clothing before re-use.
DO NOT CONTAMINATE FOOD. smoke, eat or chew tobacco in the operation area.

FIRST AID TREATMENT

If swallowed—Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.
If inhaled—Remove victim to fresh air. Apply respiration if indicated.
If on skin—Remove contaminated clothing and wash affected areas with soap and water.
If in eyes—Flush eyes for at least 15 minutes with water. Call a physician immediately.
CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY IN ALL CASES OF SUSPECTED POISONING. • Keep patient prone and quiet • Start artificial respiration immediately if patient is not breathing. • Transport the patient immediately to the nearest physician.

NOTE TO PHYSICIAN

WARNING SYMPTOMS: Symptoms include weakness, headache, tightness in chest, blurred vision, non-reactive pin-point pupils, salivation, sweating, nausea, vomiting, diarrhea and abdominal cramps.
TREATMENT: Atropine is the specific therapeutic antagonist of choice against parasympathetic nervous stimulation. If there are signs of parasympathetic stimulation, atropine sulfate should be injected at 10-minute intervals, in doses of 1 to 2 milligrams until complete atropinization has occurred.
• Morphine is contraindicated. • Clear chest by postural drainage. • Observe patient continuously for 48 hours. • Repeated exposure to cholinesterase inhibitors may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. • Allow no further exposure until time for cholinesterase regeneration has been allowed as determined by blood test.



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

345/75970
17/2

NOV 24 1982

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

Virginia Chemicals Inc.
3340 West Norfolk Rd.
Portsmouth, VA 23703

Attn: Mr. David G. Hall

Dear Mr. Hall:

Subject: Change of Propellant
Lethalaire A-35 Insecticide
EPA Reg. No: 1187-108
Lethalaire A-30 Insecticide
EPA Reg. No: 1187-67
Appl. Dates: July 22, 1982

346/83100
17/2

The requests for amended formulations for the products referred to above are acceptable and a copy of each Confidential Statement of Formula have been placed in their respective files.

At the next label printing:

1. Change the heading "HAZARDOUS TO HUMANS..." to "HAZARDS.....".
2. It is strongly suggested that the heading "THIS CYLINDER IS REFILLABLE" be changed to read: "THIS CYLINDER IS REFILLABLE BY MANUFACTURER".

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

P.S. The labeling submitted with the subject applications are also acceptable and a stamped copy of each label is enclosed for your records.