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Reg # 5440-114

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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NOV 21 1995

Mr. Jerry Fisher
Cardinal Chemical Company
1233 E. Beamer Street, Suite G
Woodland, CA 95776

Dear Mr. Fisher:

Subject: Alternate and Basic Formulation; Revised Labeling
Cardinal 5% Vapona
EPA Registration No. 5440-114
Your Submissions Dated July 7 and August 18, 1995

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

1. Add the following to Directions for Use:
 - a. Keep a minimum of a 7 day interval between applications except on cocoa beans and raw (unshelled) peanuts where daily applications do not exceed 0.5 grams A.I. per 1,000 cubic feet of head space.
 - b. Do not make applications when temperatures are below 60 F.
2. Your product contains the Class I inert, Methyl Chloroform (1,1,1-trichloroethane). Therefore in accordance with PR Notice 92-3 add the following statement in close proximity to the Ingredient Statement:

"Warning: Contains Methyl Chloroform a substance which harms public health and the environment by destroying ozone in the upper atmosphere."
3. The net weight of your product should be listed on the bottom of the front labeling panel.

CONCURRENCES

SYMBOL							
SURNAME	<i>Valent</i>						
DATE							

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4. Add to following to the Directions for Use (after "use is prohibited in" paragraph): "Nonfood areas are areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling)."

The Confidential Statement of Formulas for the alternative and basic formulations dated August 18, 1995 are acceptable.

Sincerely yours,

George T. LaRocca
Product Manager (13)
Insecticide-Rodenticide Branch
Registration Division (7505C)

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**PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS
AND DOMESTIC ANIMALS:
DANGER**

**CONCENTRATE IS POISONOUS
IF SWALLOWED, INHALED OR
ABSORBED THROUGH SKIN OR EYES.
DO NOT GET ON SKIN OR IN EYES.
DO NOT BREATHE FUMES.**
WEAR A PESTICIDE RESPIRATOR JOINTLY
APPROVED BY THE MINE SAFETY AND
HEALTH ADMINISTRATION AND BY THE
NATIONAL INSTITUTE FOR OCCUPA-
TIONAL SAFETY AND HEALTH UNDER THE
PROVISION OF 30 CFR PART 11.

ENVIRONMENTAL HAZARDS

Keep out of any body of water. Do not contaminate
water by cleaning of equipment or disposal of wastes.
Apply this product only as specified on this label.
Not for use or storage in or around the home.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product
in a manner inconsistent with its labeling.

**FOR USE ONLY IN COMMERCIAL APPLICATION EQUIPMENT
SUCH AS CONVENTIONAL OR ULV FOGGING EQUIPMENT**

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage
or disposal.
STORAGE: Store product in original container in a cool,
dry, locked place out of reach of children.
PESTICIDE DISPOSAL: Pesticide wastes are acutely
hazardous. Improper disposal of excess pesticide, spray
mixture, or rinsate is a violation of Federal law. If these
wastes cannot be disposed of by use according to label
instructions, contact your State Pesticide or Environment
Control Agency, or the Hazardous Waste representative of
the nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL: (Metal) Triple rinse (or
equivalent). Then offer for recycling or reconditioning, or
puncture and dispose of in sanitary landfill, or by other
procedures approved by State and local authorities.
(Plastic) Triple rinse (or equivalent). Then offer for
recycling or reconditioning, or puncture and dispose of in a
sanitary landfill or incineration, or, if allowed by State and
local authorities, by burning. If burned, stay out of smoke.

Directions For Use Continued, Column 3

CARDINAL 5% VAPONA

FOR SALE TO, USE AND STORAGE BY COMMERCIAL,
INDUSTRIAL AND INSTITUTIONAL APPLICATORS ONLY

ACTIVE INGREDIENTS	
2,2-dichlorovinyl dimethyl phosphate*	4.65%
Related Compounds	0.35%
INERT INGREDIENTS**	95.00%
TOTAL	100.00%

* Equivalent to 5% Vapona Insecticide
** Contains Petroleum Distillates

KEEP OUT OF REACH OF CHILDREN

DANGER



PELIGRO

POISON

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center immediately. Because
of aspiration potential, do not induce vomiting unless under direct medical
supervision. Do not induce vomiting or give anything to an unconscious person.
IF INHALED: Remove victim to fresh air. Apply artificial respiration, if indicated.
IF ON SKIN: Remove contaminated clothing and wash affected areas with soap
and water.
IF IN EYES: Flush eyes with plenty of water. Call a physician immediately if
irritation persists.
ANTIDOTE AND FIRST AID TREATMENT: ATROPINE is the emergency
antidote. CALL A PHYSICIAN IMMEDIATELY IN ALL CASES OF SUSPECTED
POISONING. Keep patient prone and quiet. Start artificial respiration if patient is not
breathing. Transport the patient immediately to the nearest physician.
NOTE TO PHYSICIAN: **SYMPTOMS:** Symptoms include weakness, headache,
lightness 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. 2-PAM is also antidotal and may be administered in
conjunction with Atropine. 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.
See Side Panel for Additional Precautionary Statements.

CARDINAL CHEMICAL COMPANY
1233 E. Beamer Street, Suite G - Woodland, CA 95776

E.P.A. EST. NO. 5440-CA-1

E.P.A. REG. NO. 5440-114

PROTECTING THE FOODS THAT FEED THE N

Directions For Use, Co
FOG OR ULV SPA
AREAS: For use
processing, food ma
containing non-per
processed food con
commodities.

The term "non-peris
not subject to rapid
unfit for consumption
not limited to: Anima
fruit, grain crops, p
commodities do not
fresh fruits and veg
but are not limited
and crackers. Proc
sealed foods or n
processed foods req

When used in food
and storage areas:
operation and no p
bulk, unpackaged p
cover before treatm
should be covered
before using.

NOTE; USE IS
manufacturing, est
wineries, breweries,
plants and ice cream
area. The following
poultry and seal
(including edible fats
and vegetables), da
plants) excluding no

DRUM HANDLING
leakage. Open dr
ventilated hood or
appropriate protect
pressure.

The rate of applicat
Vapona per 1,000 c
Check amount in in
after treatment to as

Treatment should be
unoccupied. Buildin
kept at a minimum of
entrances and do
buildings while be
entrances stating:
prior to re-entry of
by unprotected wor
not enter prior to
protection."

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KEEP OUT OF REACH OF CHILDREN

DANGER  PELIGRO
POISON

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IF SWALLOWED: Call a physician or Poison Control Center immediately. Because of aspiration potential, do not induce vomiting unless under direct medical supervision. Do not induce vomiting or give anything to an unconscious person.

IF INHALED: Remove victim to fresh air. Apply artificial respiration, if indicated.

IF ON SKIN: Remove contaminated clothing and wash affected areas with soap and water.

IF IN EYES: Flush eyes with plenty of water. Call a physician immediately if irritation persists.

ANTIDOTE AND FIRST AID TREATMENT: ATROPINE is the emergency antidote. CALL A PHYSICIAN IMMEDIATELY IN ALL CASES OF SUSPECTED POISONING. Keep patient prone and quiet. Start artificial respiration if patient is not breathing. Transport the patient immediately to the nearest physician.

NOTE TO PHYSICIAN: 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. 2-PAM is also antidotal and may be administered in conjunction with Atropine. 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.
(See Side Panel For Additional Precautionary Statements)

CARDINAL CHEMICAL COMPANY
1233 E. Beamer Street, Suite G - Woodland, CA 95776

E.P.A. EST. NO. 5440 CA-1 E.P.A. REG. NO. 5440-114

PROTECTING THE FOODS THAT FEED THE NATION

Directions For Use, Continued:

FOG OR ULV SPACE SPRAY - FOOD OR NON-FOOD AREAS: *For use in warehouses, silos, bulk bins and food processing, food manufacturing, handling and storage plants containing non-perishable, packaged or bagged raw or processed food commodities or bulk raw or processed food commodities.*

The term "non-perishable" means any raw or processed food not subject to rapid decay or deterioration that would render it unfit for consumption. Raw commodities would include, but are not limited to: Animal feed, cocoa beans, dried beans, dried fruit, grain crops, peanuts, soybeans and nut crops. Raw commodities do not include: eggs, milk, meat, poultry, fish, fresh fruits and vegetables. Processed foods would include, but are not limited to: flour, sugar, cereals, packaged goods and crackers. Processed foods do not include: hermetically sealed foods or manufactured dairy products and other processed foods requiring freezing or refrigeration.

When used in food processing, food manufacturing, handling and storage areas; apply only during times when plant is not in operation and no processed food products are exposed. If bulk, unpackaged processed foods are exposed, remove or cover before treatment begins. All food processing surfaces should be covered during treatment or thoroughly cleaned before using.

NOTE: USE IS PROHIBITED IN: The following food manufacturing establishments: bottling plants (including wineries, breweries, soft drinks), frozen food (including pizza plants and ice cream plants) excluding non-food manufacturing areas. The following food processing establishments: meat, poultry and seafood slaughtering and/or packing plants (including edible fats and oils), frozen food plants (including fruit and vegetables), dairy product plants (including milk processing plants) excluding non-food processing areas.

DRUM HANDLING: Handle carefully to prevent damage and leakage. Open drums only when set on end and under a ventilated hood or when wearing an approved respirator and appropriate protective clothing. Open bungs slowly to release pressure.

The rate of application should be between 1-2 grams of actual Vapona per 1,000 cu. ft. or 1/2 or 1 oz. of liquid per 1,000 cu. ft. Check amount in insecticide tank or auxiliary tank before and after treatment to assure proper dosage has been applied.

Treatment should be made during the hours when buildings are unoccupied. Buildings treated should be closed and ventilation kept at a minimum during application of the insecticide. Lock all entrances and do not allow unprotected workers to enter buildings while being treated. Place Caution Signs at all entrances stating: "This building should be opened and aired prior to re-entry of unprotected workers or remain unoccupied by unprotected workers for at least 6 hours after treatment. Do not enter prior to _____ o'clock _____ (date) _____ without protection."

STATEMENT OF WARRANTY AND LIABILITY
Seller warrants that this product complies with the specifications expressed in this label. SELLER MAKES NO OTHER WARRANTIES; AND DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR THE INTENDED PURPOSE. Seller's liability for default, breach or failure under this label shall be limited to the amount of the purchase price. Seller shall have no liability for consequential damages.

May, 1995

ACCEPTED
with COMMENTS
in EPA Letter Dated

21 NOV 1995

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

5440-114

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