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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

5440-121

22 JAN 1997

Term of Issuance: Conditional

Name of Pesticide Product:

Cardinal Card-O-Vap 8

NOTICE OF PESTICIDE:
 Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Cardinal Chemical Company
1233 E. Beamer St.
Suite G
Woodland, CA 95776

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 conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. The following label changes must be made to the label:
 - a. Revise the EPA Registration Number to read, 5440-121.
 - b. The precautionary statements state: "Poisonous if swallowed ..." This must be changed to "Fatal if swallowed."
 - c. The use sites must be moved to the front panel of the label.
 - d. Under Non-food/feed processing areas: "...maching rooms ..." must be changed to "... machine rooms ..."
 - e. Under the ingredients statements on the front page, the term "inert ingredients" should be footnoted (with an asterisk or other symbol) to state that the product contains petroleum distillates.

Signature of Approving Official:

Date:

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f. Page 3, of the label states: "NOTE; USE PROHIBITED IN: ... (c) USDA Meat and Poultry Plants". This should be changed from "USDA Meat and Poultry Plants" to "Federally Inspected Meat and Poultry Plants". We regret sending you the incorrect statement previously.

3. The dielectric breakdown point for 5440-RER must be submitted to the Agency, or, the following statement must be added to the label:

"Do not apply this product in or on electrical equipment due to the possibility of shock hazard."

4. As the flashpoint of the product is 110 degrees F, the statement "Do not use or store near heat or open flame "must be added to the front panel of the label under the heading Physical/Chemical Hazards.

5. The following personal protective clothing must be added beneath the precautionary statements or directions for use.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions from category "C" of the EPA chemical resistance category selection chart in the Worker Protection Standard.

Applicators and other Handlers Must Wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Polyvinyl Chloride or Viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical resistant headgear for overhead exposure
- Chemical resistant apron required for mixing/loading and cleaning equipment

Respirator with either an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TX-23C) or a canister approved for pesticides (MSHA/NIOSH approval number TC-14G).

-Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washing, use detergent and hot water. Keep and wash PPE separately from other laundry.

The above respirator statement should replace the current statement.

6. Submit two copies of the revised final printed label for the record before you release the product for shipment.

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-- 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.

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

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CARD-O-VAP 8

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

ACTIVE INGREDIENTS	
2,2-dichlorovinyl dimethyl phosphate* (Dichlorvos, DDVP)	7.44%
Related Compounds	0.56%
INERT INGREDIENTS	<u>95.00%</u>
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.

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 - Woodland, CA 95776

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

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ACCEPTED
with COMMENTS
in EPA Letter Dated

22 JAN 1997

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
5440-121

PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS
AND DOMESTIC ANIMALS:

DANGER

POISONOUS IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN. RAPIDLY ABSORBED THROUGH THE SKIN. REPEATED INHALATION OR SKIN CONTACT MAY WITHOUT SYMPTOMS, PROGRESSIVELY INCREASE SUSCEPTIBILITY TO DICHLORVOS (DDVP) POISONING. DO NOT SWALLOW OR GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT BREATHE VAPORS. DO NOT CONTAMINATE FOOD OR FEED PRODUCTS. WEAR A PESTICIDE RESPIRATOR JOINTLY APPROVED BY THE MINE SAFETY AND HEALTH ADMINISTRATION AND BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH UNDER THE PROVISION OF 30 CFR PART 11.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Keep out of any body of water. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. 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.

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 Environmental Control Agency, or the Hazardous Waste representative at 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 a 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

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Directions For Use, Continued:

FOR USE IN COMMERCIAL APPLICATION EQUIPMENT: CONVENTIONAL OR ULV FOGGING EQUIPMENT. FOR USE IN WAREHOUSES, SILOS, BULK BINS AND FOOD/FEED PROCESSING, FOOD/FEED MANUFACTURING, HANDLING AND STORAGE PLANTS CONTAINING NON-PERISHABLE, PACKAGED OR BAGGED RAW OR PROCESSED FOOD/FEED COMMODITIES OR BULK RAW OR PROCESSED FOOD COMMODITIES.

For control of insects such as: Indian Meal Moth, Red Flour Beetle, Confused Flour Beetle, Sawtoothed Grain Beetle, Merchant Grain Beetle, Cigarette Beetle, Drugstore Beetle, Granary Weevil.

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

When used in food/feed processing, food/feed manufacturing, handling and storage areas: (a) Apply only during times when plant is not in operation and no food/feed products are exposed. If bulk, unpackaged food/feed are exposed, remove or cover before treatment begins. (b) All food/feed processing surfaces should be covered during treatment or thoroughly cleaned before using.

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

Non-Food/Feed Processing Areas: Includes areas such as garbage rooms, lavatories, floor drains (to sewers entries and vestibules), offices, locker rooms, maching rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

All treatments should be made during the hours when buildings are unoccupied. Buildings treated should be closed and ventilation kept at a minimum during application. Lock all entrances and do not allow unprotected workers to enter buildings during treatment. Place WARNING signs at all entrances stating: "THIS BUILDING SHOULD BE OPENED AND AIRED PRIOR TO REENTRY OF UNPROTECTED WORKERS. THIS BUILDING MUST NOT BE ENTERED WITHOUT PERSONAL PROTECTION EQUIPMENT FOR 24 HOURS; OR, UNTIL A DIRECT INDICATING SHORT TERM CONCENTRATION MONITORING DEVICE (e.g. a Drager Tube) INDICATES THAT THE DDVP AIR CONCENTRATION IS EQUAL TO, OR LESS THAN, 50% OF THE PEL (0.1ppm); AN AIR CONCENTRATION OF 0.05 PPM OR LESS IS REQUIRED FOR ENTRY WITHOUT PERSONAL PROTECTION EQUIPMENT. DO NOT ENTER PRIOR TO ___ AM OR PM ON ___ Date WITHOUT PERSONAL PROTECTION EQUIPMENT UNLESS AIR CONCENTRATIONS OF DDVP ARE 50% OF THE PEL OR LESS."

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.

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

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.

Do not make applications when temperatures are below 60 degrees F.

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.

June, 1996

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