



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

April 28, 2021

Mardel Belotinsky  
Registration Manager  
Soil Chemicals Corporation  
d/b/a Cardinal Professional Products  
P. O. Box 782  
Hollister, CA 95024

Subject: Label Amendment – Addressed PRD mitigation language, modified entry restrictions and various label comments  
Product Name: CARDINAL CARD-O-VAP 8  
EPA Registration Number: 8536-41  
Application Date: July 26, 2017  
Decision Number: 532221

Dear Ms. Belotinsky:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact David Gardner by phone at (703) 347-8599, or via email at [gardner.david@epa.gov](mailto:gardner.david@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Shanta Adeeb". The signature is written in a cursive, flowing style.

Shanta Adeeb, Product Manager 10  
Invertebrate-Vertebrate Branch 2  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

**ACCEPTED**

04/28/2021

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 8536-41

# Card-O-Vap 8

## (Alternate Brand Name: VAP-X)

**NOT FOR USE OR STORAGE IN OR AROUND RESIDENTIAL SITES**

*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, AND IN THE NONFOOD/NONFEED AREAS OF FOOD/FEED HANDLING ESTABLISHMENTS*

**ACTIVE INGREDIENT:**

Dichlorvos, DDVP (dimethyl 2,2-dichlorovinyl phosphate)..... 8.0%

**OTHER INGREDIENTS\*:**..... 92.0%

**TOTAL:** ..... 100.0%

*\* Contains Petroleum Distillates*

**KEEP OUT OF REACH OF CHILDREN**

### WARNING

*Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)*

<b>FIRST AID</b>	
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• <b>Do not</b> give any liquid to the person.</li> <li>• <b>Do not</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>Do not</b> give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lens, if present, after the first 5 minutes; then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>NOTE TO PHYSICIAN:</b>	<ul style="list-style-type: none"> <li>• Contains petroleum distillates. Vomiting may cause aspiration pneumonia hazard.</li> </ul>
<b>EMERGENCY INFORMATION:</b>	<ul style="list-style-type: none"> <li>• Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</li> <li>• For additional information, in case of an emergency, call CHEMTREC at 1-800-424-9300.</li> </ul>

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

- **WARNING.** Contains Petroleum Distillates. May be fatal if absorbed through skin.
- Harmful if swallowed.
- Causes moderate eye irritation. **Do not** get in eyes, on skin, or on clothing.
- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove and wash contaminated clothing before reuse.

[See label pamphlet for additional Precautionary Statements and complete Directions for Use.] {AND}

[See inside of label pamphlet for other Precautionary Statements, including First Aid, and complete Directions for Use.] {AND}

[Date of Labeling: {Insert stamped "accepted" date.}]

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

- Mixers, loaders, applicators and other handlers must wear:
  - long-sleeved shirt;
  - long pants;
  - shoes and socks;
  - chemical-resistant gloves made of barrier laminate, butyl rubber > 14 mils, nitrile rubber > 14 mils, neoprene rubber > 14 mils, polyvinyl chloride > 14 mils or viton > 14 mils;
  - protective eyewear; and
  - a **minimum** of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and a combination N, R, or P filter; **OR** a NIOSH-approved gas mask with OV canisters; **OR** a NIOSH-approved powered air-purifying respirator with OV cartridges and combination HE filters.

### **ENVIRONMENTAL HAZARDS**

- **Do not** discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge.
- **Do not** discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### **PHYSICAL/CHEMICAL HAZARDS**

- Combustible. **Do not** use or store near heat or open flame.
- **Do not** apply this product in or on electrical equipment, due to the possibility of shock hazard.
- **Do not** allow this product to come in contact with acids, bases, or other strong oxidizing materials, as a chemical incompatibility reaction may occur.

## **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. **READ ENTIRE LABEL BEFORE USING. USE STRICTLY IN ACCORDANCE WITH LABEL AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

## LIQUID FORMULATION

### FOR USE *ONLY* IN COMMERCIAL APPLICATION EQUIPMENT, SUCH AS CONVENTIONAL OR ULV FOGGING EQUIPMENT (SPACE TREATMENT)

- USE IN HAND-HELD FOGGER OR HAND-HELD SMOKE GENERATOR EQUIPMENT IS **PROHIBITED**.
- WHEN APPLYING AS A FOG OR MIST INDOORS, EQUIPMENT **MUST** BE OPERATED REMOTELY. HANDLERS **CANNOT** BE PRESENT IN THE TREATMENT AREA BEING FOGGED OR MISTED DURING APPLICATION.
- USE IN RESIDENTIAL SITES AS A CRACK AND CREVICE OR SPACE SPRAY IS **PROHIBITED**.
- USE ON LAWNS, TURF OR ORNAMENTALS IS **PROHIBITED**.
- USE IS ALSO **PROHIBITED** IN:
  - **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/non-feed manufacturing areas.
  - **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/non-feed processing areas.
  - **Federally Inspected Meat and Poultry Plants**

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/FEED COMMODITIES AND NON-FOOD/NON-FEED AREAS OF PROCESSING/MANUFACTURING PLANTS\*, FOR CONTROL OF INSECTS SUCH AS INDIAN MEAL MOTH, RED FLOUR BEETLE, CONFUSED FLOUR BEETLE, SAW-TOOTHED GRAIN BEETLE, MERCHANT GRAIN BEETLE, CIGARETTE BEETLE, DRUGSTORE BEETLE, AND GRANARY WEEVIL:

- \*Non-food/non-feed processing and manufacturing plant use areas include 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).
- 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°F.
- The term “non-perishable” means any raw or processed food/feed not subjected 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 food/feed or manufactured dairy products and other processed food/feed requiring freezing or refrigeration.
- When using in food/feed processing, food/feed manufacturing, handling and storage areas:
  - Apply only during times when plant is not in operation and no food/feed products are exposed. If bulk, unpackaged food/feed is exposed, remove or cover before treatment begins.

{EPA Reg. No. 8536-41, MASTER LABEL/DRAFT (Card-O-Vap 8/ABN=VAP-X), 2021 April 19, p. 3}

{Notes : Text in braces is administrative and will not appear on final labeling.  
Text in brackets is optional and may or may not appear on final labeling.}

- All food/feed processing surfaces must be covered during treatment or thoroughly cleaned before using.

### **POSTING AND RE-ENTRY RESTRICTIONS**

NOTIFICATION: Before the start of the application, post fumigant warning signs at all entrances to the building. The signs must bear the skull and crossbones symbol and state: (1) "DANGER/PELIGRO", (2) "Building under fumigation, DO NOT ENTER/NO ENTRE", (3) the date and time of fumigation, (4) "DDVP {or use brand name} Fumigant in use", and name, address, and telephone number of the applicator. The signs must be located prominently at each entrance, using a sign size and letter size that makes the sign clearly legible. All signs must be removed after the ventilation is complete and before routine entry by unprotected persons is permitted. Entry by any person--other than a correctly trained and equipped handler who is performing a task related to ventilation or air concentration monitoring and who is wearing the personal protective equipment required for handlers--is **PROHIBITED** in the entire enclosed treatment area from the start of application until ventilation is complete. Ventilation is complete either when 24 hours have elapsed following application and the building has been opened and aired or when a direct-indication short-term concentration monitoring device (e.g. Draeger tube) indicates that the DDVP air concentration is equal to, or less than, 0.050 ppm (50% of the OSHA PEL).

In California, ventilation is complete either when 24 hours have elapsed following application and the building has been opened and aired or when a direct-indication short-term concentration monitoring device (e.g. Draeger tube) indicates that the DDVP air concentration is equal to, or less than, 0.010 ppm.

### **CONVENTIONAL APPLICATION METHOD:**

- Apply **Card-O-Vap 8** at a maximum rate of 2 grams A.I. per 1,000 cubic feet (equivalent to 1 ounce of liquid per 1,000 cubic feet). Check amount in insecticide tank or auxiliary tank before and after treatment to assure that the proper dosage has been applied.

HOW TO APPLY: Apply *only* with remotely operated fogging or misting equipment at the rates given above. When using in food processing, handling and storage areas: A) Apply *only* when the area being treated is unoccupied, not in operation and when no food products are exposed. If bulk, unpackaged foods are exposed, remove or cover before treatment begins. B) All food processing surfaces **must** be covered during treatment or thoroughly cleaned before using. The treated area **must** be closed and ventilation kept at a minimum during application. Lock all entrances and do not allow workers to enter the treated area during application. **Do not** allow unprotected workers to enter the treated areas during ventilation. NOTIFICATION: Before the start of the application, post fumigant warning signs at all entrances to the building as directed in the Posting and Re-Entry Restrictions. **Do not** make applications when temperatures are below 60°F. After application, open several windows and doors to create air currents to ensure reduction of the insecticide vapors.

{Alternate/optional text (for [PRODUCT NAME]) follows.}

#### **APPLICATION USING CO<sub>2</sub> TO PRESSURIZE CYLINDERS:**

- [PRODUCT NAME] is packaged in cylinders to be pressurized with carbon dioxide (CO<sub>2</sub>) and applied as a fog. This can be done using a timer or other remotely operated device or method.
- 1. Apply [PRODUCT NAME] at the maximum rate of 2 grams A.I. per 1,000 cubic feet or maximum 1 ounce of liquid per 1,000 cubic feet.
- 2. Place the [PRODUCT NAME] cylinder on a scale, with a CO<sub>2</sub> cylinder close by.
- 3. Remove protective cylinder bonnets from both cylinders and check to determine that the valves are firmly in the “OFF” position; then remove safety caps. Using a high pressure hose, connect the two cylinders.
- 4. Open the CO<sub>2</sub> cylinder valve; then open the [PRODUCT NAME] cylinder valve, and fill with the desired amount of CO<sub>2</sub> into the [PRODUCT NAME] cylinder. Turn off both valves. Replace the safety cap and bonnet on the CO<sub>2</sub> cylinder and reserve it for future use.
- 5. Using a high pressure hose, connect the [PRODUCT NAME] cylinder to the application system. Turn on the [PRODUCT NAME] cylinder and dispense the required dosage to the space to be treated, according to the scale, by using a timer, or by other remotely operated dispensing method.
- 6. When the desired amount of [PRODUCT NAME] has been dispensed, close the [PRODUCT NAME] cylinder valve Purge the application system with CO<sub>2</sub> for a minimum of 5 minutes, if necessary. Replace the safety cap and bonnet on the [PRODUCT NAME] and CO<sub>2</sub> cylinders.
- 7. The empty [PRODUCT NAME] cylinder must be returned to Cardinal Professional Products per the STORAGE AND DISPOSAL directions, below.

{STORAGE AND DISPOSAL directions for refillable containers follow below.}

#### **STORAGE AND DISPOSAL**

***Do not contaminate water, food or feed by storage or disposal.***

**PESTICIDE 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 HANDLING--Refillable Container:** Only the registrant and/or their authorized refiller are allowed to refill this container. Refill this container with pesticide only. **Do not** reuse this container for any other purpose. Containers are the property of Cardinal Professional Products and **must** be returned promptly after use, whether empty or partially full. For cylinders, **do not** remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use or is empty. After use, close valve, screw safety cap tightly onto valve outlet, and replace protection bonnet before shipping. For drums, the bung(s) must be kept secured in place when the drum is not in use and during transit. Cleaning the container before final

disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

**CONTAINER DISPOSAL:** Only the registrant and/or their authorized refiller can clean or dispose of the container. Instructions to registrant/refiller: To clean the container before final disposal, remove any remaining liquid from the container, using dry air pressure if necessary. Allow container to aerate for at least 5 days. After aeration, wash container using hot water; then offer container to qualified reconditioner or dispose of as directed by State or local regulations.

{STORAGE AND DISPOSAL directions for non-refillable containers follow below.}

### **STORAGE AND DISPOSAL**

*Do not contaminate water, food or feed by storage or disposal.*

**PESTICIDE 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 HANDLING—Non-refillable container: Do not** reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. For containers 5 gallons or smaller, triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. For containers larger than 5 gallons, triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. For containers 5 gallons or more, use 1/5 the volume of water for rinsing. Then offer for recycling, if available. If recycling is not available, triple rinse (as directed above); then puncture container and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

### **WARRANTY DISCLAIMER**

Seller warrants that this product conforms to the chemical description on its label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. To the extent consistent with applicable law, neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product in a manner contrary to its label.



*Produced for:*



**Cardinal Professional Products**  
**8100 Arroyo Circle, Gilroy, CA 95020**  
**(800) 548-2223**

EPA Reg. No. 8536-41  
EPA Est. 11220-CA-8

Lot No. : \_\_\_\_\_

NET CONTENTS : \_\_\_\_ 2.5 gal. ; \_\_\_\_ 5 gal. ; \_\_\_\_ 54 gal. ; \_\_\_\_ 55 gal. ; \_\_\_\_ lbs., \_\_\_\_ oz.