



**OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION**

WASHINGTON, D.C. 20460

June 21, 2024

**SENT BY EMAIL**

Brooke Baker  
brooke@orcalinc.com  
OR-CAL, INC.

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 - Addition of Optional Marketing Logos  
Product Name: OR-CAL DUO  
Admin Number: 71096-20  
EPA Receipt Date: 01/18/2024  
Action Case Number: 00497127

Dear Brooke Baker:

The U.S. Environmental Protection Agency is in receipt of your application for notification under Pesticide Registration Notice 98-10 for the above referenced product. The EPA has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped "Notification" and will be placed in our records.

Should you wish to add/retain a reference to your 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 EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the 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 EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

If you have questions, please contact Scott Campbell via email at [campbell.scott@epa.gov](mailto:campbell.scott@epa.gov).

Sincerely,

*Scott Campbell (for)*

Venus Eagle, PM01  
IVB3, RD  
Office of Pesticide Programs

**NOTIFICATION**

71096-20

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

06/21/2024

**OR-CAL DUO**

Controlled Release Pellet to Control Slugs and Snails  
Around Listed Vegetables, Citrus, and Ornamentals  
Controls Giant African Land Snail

**Active Ingredients:**

|                        |        |
|------------------------|--------|
| Metaldehyde .....      | 2.0%   |
| Sulfur .....           | 0.5%   |
| Other Ingredients..... | 97.5%  |
|                        | 100.0% |

EPA Reg. No. 71096-20

EPA Est. No. 66876-OR-001

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

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).

**FIRST AID**

|  |  |
|--|--|
| <b>If swallowed</b>  | <ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>If inhaled</b>  | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</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 lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <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>Poisoning Hotline:</b> Seek medical care as soon as possible after exposure. For incidents involving animals, seek veterinary care as soon as possible after exposure. Have the product container or label with you when you call a poison control center or doctor or veterinarian, or when going for treatment. For information on this pesticide product (including health |  |

concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

**Metalddehyde is a systemic toxin. There is no antidote. The following instructions are not intended for laypeople. There is no home treatment. Exposed individuals and animals should receive emergency care as quickly as possible.**

**Note to Physician:** Dust inhalation is usual route of accidental exposure; the product is rarely ingested. Treatment is symptomatic and supportive. Monitor severe exposures closely: seizures, electrolyte imbalances, acidosis, dehydration, and increased body temperature have been reported.

**Note to Veterinarian:** Animals typically are exposed via ingestion. Treatment is symptomatic and supportive. If significant ingestion is suspected, and the animal is asymptomatic, consider induction of emesis or gastric lavage and administration of activated charcoal, cathartic and enema to limit absorption. Monitor asymptomatic and symptomatic animals closely. Treat seizures, electrolyte imbalances, acidosis, dehydration, and increased body temperature. Monitor liver function post recovery.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Harmful if inhaled. Causes moderate eye irritation. Harmful if absorbed through the skin. Avoid contact with eyes, skin, or clothing. Avoid breathing dust.

**IMPORTANT:** This product can be harmful to children and fatal to domestic animals when ingested. Children and dogs may be attracted to the product. Application of this product is prohibited unless children and domestic animals can be excluded from the treated area from start of the application until applied material is no longer visible.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical resistant gloves made of: barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, natural rubber ≥14 mils, polyethylene, polyvinyl chloride ≥14 mils, or viton ≥14 mils.

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

### USER SAFETY RECOMMENDATIONS

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

This product is toxic to mollusks (e.g., clams, oysters, scallops, mussels). Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate. This pesticide is toxic to birds and mammals. Granules on soil surface may be hazardous to terrestrial wildlife. Cover or collect any such materials spilled during loading.

## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency representative responsible for pesticide regulation. Read entire label before using.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical resistant gloves made out of any water proof material
- Shoes plus socks
- Protective eyewear

### **RESTRICTIONS**

- This product is solely for use on agricultural crops grown for commercial or research purposes.
- This product may not be applied to residential sites (i.e., in yards, gardens, around homes and apartments) and other sites such as the exterior areas around schools and daycare facilities, and athletic fields, playgrounds, parks, recreation areas, etc.
- Broadcast applications and applications of this product directed to plant parts are prohibited except to grass (grown for seed and/or forage and hay), corn and soybeans, wheat, and clover (grown for seed).
- When broadcast applications are allowed, apply using standard broadcast spreaders.
- Do not allow bait pellet to come in contact with plant parts.
- Use only as a baiting treatment to be applied directly to the soil area beneath listed plants.
- Use as band treatment between rows.
- Grower is responsible for residues on crops.
- Do not apply to dry soil. Make applications following irrigation.
- Do not re-water for 48 hours after application.

NOTIFICATION 03/30/2022 V2: Optional Marketing Logos

- Not for use in California on clover grown for seed.
- Do not use in or around Hanalei, Kaua'i (USFW Refuge)

OR-CAL DUO is a soil surface treatment for control of snails and slugs in citrus groves, berry crops, listed vegetable crops, ornamentals for production, and seed grasses. When applied as directed, OR-CAL DUO will withstand rain and sprinkling and will offer protections to gardens for several weeks. This product may be injurious to Daylilies and Clematis. Do not use on these plants.

For use on ornamentals and listed crops (other than citrus, grass grown for seed and/or forage and hay, wheat, corn and soybeans), apply in a band, between rows and/or directed towards base of the plants, by hand or with commercial application equipment designed for banded application of granular products.

For use on citrus, apply in a band under tree canopy, by hand or with commercial application equipment designed for banded application of granular products.

For grass (grown for seed and/or forage and hay) and wheat apply by broadcast application.

For clover (grown for seed): Apply as a perimeter treatment at planting and for subsequent applications by broadcast, directing the product to the soil. Not for use in California.

For corn and soybeans: Apply as a perimeter treatment at planting and for subsequent applications by broadcast, directing the product to the soil.

For clover (forage and hay), apply as a perimeter treatment.

Apply any time of day, but evening applications are preferred.

| Crop Use Site   | Maximum Single Application Rate (lbs Product/A) | Minimum Days Between Retreatment | Maximum Number of Applications Per Season | Preharvest Interval | Maximum number of applications per year |
|---|---|----------------------------------|---|---------------------|---|
| <b>Artichoke -perennial</b>   | 25  | 18                               | 6   | 0                   | 12                                      |
| <b>-annual</b>  | 25  | 18                               | 2   | 0                   | 4                                       |
| <b>Beet</b> (garden, garden leaves)<br>Only for use in Oregon, Washington & Idaho   | 25  | 14                               | 2   | 30                  | 2                                       |
| <b>Berries:</b> Blackberries, blueberries, boysenberries, currants, dewberries, gooseberries, huckleberries, loganberries, raspberries. | 20  | 14                               | 3   | 0                   | 3                                       |
| <b>Strawberries</b>   | 25  | 14                               | 3   | 0                   | 6                                       |
| <b>Citrus</b>   | 25  | 14                               | 6   | 0                   | 6                                       |
| <b>Clover (grown for seed)</b><br><b>Not for use in California</b>  | 20  | 10                               | 2   | 0                   | 2                                       |
| <b>Clover (forage and hay)</b><br>Only for use in Oregon, Washington & Idaho  | 20  | 10                               | 2   | 30                  | 2                                       |
| <b>Celery, Swiss Chard</b>  | 25  | 21                               | 4   | 1                   | 8                                       |

|   |    |    |   |                                       |   |
|---|----|----|---|---------------------------------------|---|
| <b>Hops</b><br>Only for use in Oregon,<br>Washington & Idaho  | 25 | 14 | 4 | 60                                    | 4 |
| <b>Peas and Bean</b>  | 25 | 7  | 3 | Pre-bloom                             | 6 |
| <b>Peas and Bean (forage and hay)</b>   | 25 | 7  | 3 | 1                                     | 6 |
| <b>Rutabaga</b><br>Only for use in Oregon,<br>Washington & Idaho  | 25 | 14 | 2 | 40                                    | 4 |
| <b>Tomatoes</b>   | 25 | 14 | 3 | 0                                     | 6 |
| Lettuce and the following<br>Leafy Greens: broccoli,<br>Brussels sprouts, cabbage,<br>cauliflower, collards, kale,<br>spinach   | 25 | 14 | 3 | 0                                     | 6 |
| <b>Turnip (root and tops)</b><br>Only for use in Oregon,<br>Washington & Idaho  | 25 | 14 | 2 | 20                                    | 4 |
| <b>Wheat (forage, grain, hay, straw)</b><br>Only for use in Oregon,<br>Washington & Idaho   | 25 | 14 | 2 | Prior to<br>formation of<br>seed head | 4 |
| <b>Grass (grown for seed)</b>   | 20 | 21 | 4 | 21                                    | 4 |
| <b>Grass (Forage and Hay)</b>   | 20 | 14 | 4 | 21                                    | 4 |
| <b>Mint (Peppermint, Spearmint, and their Oils)</b>   | 25 | 21 | 4 | 1                                     | 4 |
| <b>*Corn* (field and sweet)</b>   | 25 | 7  | 4 | 0                                     | 4 |
| <b>Soybean** (Only for use in the following states:<br/>Alabama, Arkansas,<br/>Connecticut, Delaware,<br/>Georgia, Louisiana, Maine,<br/>Maryland, Massachusetts,<br/>Mississippi, North Carolina,<br/>New Hampshire, New Jersey, New York, Ohio,<br/>Pennsylvania, Rhode Island, South Carolina,<br/>Tennessee, Vermont, Virginia)</b> | 10 | 7  | 3 | 0                                     | 3 |
| <b>Ornamental Plants</b>  | 25 | 21 | 6 | 0                                     | 6 |

\*Corn applications must be completed no later than flag stage. Apply as perimeter treatment at planting (up to V8 growth stage) and then for subsequent applications (V8-VT growth stage) by broadcast, directing the product to the soil.

\*\*Metaldehyde treated soybeans may not be fed to livestock and livestock may not graze in the treated fields. Applications must be completed prior to pod formation. Apply as a perimeter treatment at planting (up to V4 growth stage) and then for subsequent applications (V4-R1 growth stage) by broadcast, directing the product to the soil.

Growth stages are according to Iowa State University Crop Guides:  
Corn — <http://www.agronext.iastate.edu/corn/docs/corn-field-guide.pdf>  
Corn — [https://graincrops.ca.uky.edu/files/corngrowthstages\\_2011.pdf](https://graincrops.ca.uky.edu/files/corngrowthstages_2011.pdf)

NOTIFICATION 03/30/2022 V2: Optional Marketing Logos

Soybean — [http://extension.agron.iastate.edu/soybean/production\\_growthstages.html](http://extension.agron.iastate.edu/soybean/production_growthstages.html)

Soybean — [https://crops.extension.iastate.edu/soybean/production\\_growthstages.html](https://crops.extension.iastate.edu/soybean/production_growthstages.html)

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** This product can be harmful to children and fatal to dogs and other domestic animals if ingested. Dogs have been known to ingest metaldehyde after opening or tearing packaging. Store this product in its original packaging, in a cool, secure location and out of reach of children and pets.

**Pesticide Disposal:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration.

### CONDITIONS FOR SALE

Important: Read these entire Directions and Conditions of Sale before using OR-CAL DUO. Disclaimer: Manufacturer warrants that this product conforms to the chemical description on the label and is reasonable fit for the specific purposes referred to in the Directions for Use, subject to the inherent risks referred to above. Manufacturer makes no other express or implied warranty. To the extent consistent with applicable law, in no case shall manufacturer be liable for consequential, special or indirect damage resulting from the use or handling of this product.

Net Weight: 10, 20, 40, 2000 lbs.

OR-CAL Inc.  
29454 Meadowview Rd.  
Junction City, OR 97448  
PH: 541-689-4413

Optional marketing logo(s)/statement(s):

{Note to PM: Adding below Meta and OR-CAL logos}

