Pesticide Use and Industrial Hemp

The County of San Diego
Department of Agriculture,
Weights & Measures
Topics

- What is a pesticide?
- Operator Identification Numbers (OID)
- Department of Pesticide Regulation (CDPR) Pesticide Use Guidelines
- Label Review
What is a pesticide?

- Any substance that prevents, destroys, repels, or mitigates any pest
  - Insecticides
  - Rodenticides
  - Fungicides
  - Herbicides
  - Including
    - FIFRA 25b exempt pesticides
    - Organic Pesticides
    - Homemade remedies
      - Vinegar
      - Dr. Bronner's soap solutions
Operator Identification Number

- Required for pesticide use on production agricultural commodities
- Allows for the purchase of commercial agricultural pesticides
- Pesticide Use Reports
Current guidance can be found at
https://www.cdpr.ca.gov/docs/cannabis/index.htm
Exempt Pesticides

- Castor oil
- Cedar Oil
- Cinnamon
- Cinnamon oil
- Citric acid
- Citronella
- Citronella oil
- Cloves
- Clove oil
- Corn gluten meal
- Corn oil
- Cottonseed oil
- Dried blood
- Eugenol
- Garlic
- Garlic oil
- Geraniol
- Geranium oil
- Lauryl sulfate
- Lemongrass oil
- Linseed oil
- Malic acid
- Mint
- Mint oil
- Peppermint
- Peppermint oil
- 2-Phenethyl propionate
- Potassium sorbate
- Putrescent whole egg solids
- Rosemary
- Rosemary oil
- Sesame oil
- Sodium chloride
- Sodium lauryl sulfate
- Soybean oil
- Thyme
- Thyme oil
- White pepper
- Zinc metal strips

3CCR 6147
Exempt Pesticides

- Exempt from registration requirements
- Exempt from Pesticide Use Reporting
- Must maintain application use records
- Must obtain an Operator
- Must train Pesticide handlers and field workers
CDPR Registered Pesticides:
https://www.cdpr.ca.gov/docs/label/sitecode.htm

Welcome to the California Product/Label Database Application

Search for Pesticide Products by Site Code

Back to Product/Label Database Queries & Lists

This query yields pesticide products that meet the criteria you specify below.

First, find the site code that matches your site by entering its name, and press "SEARCH":

Site Name
Hemp

SEARCH CLEAR

Then, enter that single site code and press "SEARCH":

Site Code
26010

SEARCH CLEAR

Matches for: Hemp

- (26010) HEMP/CANNABIS
Output Reporting

Query Parameters

Sites: HEMP/CANNABIS(26010)
Active Chemicals only

19 product labels match.

Any product listed below, which includes the term "Master Label" in front of the product brand name, may not be sold or used in California.

Put a check by all the products you would like more details on.
Then select the report format you want from the list below:

Brief product data citation sorted by Product Name ▼

And press the Report button:

Report  Clear

ACTIVE (08/10/06) □ AZA-DIRECT ( 71908- 1-AA- 10163)
ACTIVE (02/06/17) □ AZAMAX BOTANICAL INSECTICIDE/ MITICIDE/ NEMATICIDE ( 91865- 4-AA )
ACTIVE (01/28/15) □ CAPTIVA ( 10163- 326-AA )
ACTIVE (08/14/18) □ DEBUG-ON ( 70310- 11-AA )
ACTIVE (01/01/17) □ GENERAL HYDROPONICS DEFGUARD BIOFUNGICIDE/BACTERCIDE ( 91865- 3-AA )
ACTIVE (01/01/17) □ GENERAL HYDROPONICS EXILE INSECTICIDE/FUNGICIDE/MITICIDE ( 91865- 2-AA )
ACTIVE (02/17/17) □ GENERAL HYDROPONICS PREVASYN INSECT REPELLENT/INSECTICIDE ( 91865- 1-AA )
ACTIVE (02/23/18) □ HORMEX ROOTING POWDER NO. 8 ( 8281- 1-ZA )
ACTIVE (04/09/15) □ MILLER HOT SAUCE ANIMAL REPELLENT ( 90930- 1-AA )
**Label Review**

**Procidic**

**Broad Spectrum Bactericide and Fungicide Compound**

A Fungicide and Bactericide for use on Cannabis and Hemp plants grown in a greenhouse, indoor and/or grown outside in fields. Prevents and controls a variety of diseases including Powdery Mildew, Bud Rot and Root Rot. See label for a complete list of diseases.

- Registered Material for use in Organic Agriculture
- Bactericide and Fungicide in One
- Works Systemically
- No Re-Entry Interval Required (0-hr REI)
- Can Be Used up to Day of Harvest
- Works on Contact and Residual Action

![Procidic label](image)

**Directions for Use**

When using Procidic follow applicable state, federal, and local regulations. See label directions for specific use rates and application methods.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Target Disease</th>
<th>Use Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greenhouse, Indoor-grown or Field-grown Cannabis</td>
<td>Powdery Mildew (<em>Sphaerotheca macularis</em>)</td>
<td>Preventative: 0.5-3.0 fl oz/1000 sq ft Curative: 1-3.5 fl oz/gal</td>
</tr>
<tr>
<td></td>
<td>Gray Mold/Bud Rot (<em>Botrytis cinerea</em>)</td>
<td></td>
</tr>
<tr>
<td>Greenhouse, Indoor-grown or Field-grown Cannabis</td>
<td>Root Rot (<em>Pythium sp, Fusarium sp, Phytophthora sp, Rhizoctonia sp</em>)</td>
<td>Preventative: 0.4-0.5 fl oz/1000 sq ft Curative: 0.5-1 fl oz/gal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Greenhouse, Indoor-grown or Field-grown Hemp</strong></td>
<td>Powdery Mildew (<em>Sphaerotheca macularis</em>)</td>
<td>Preventative: 0.5-3.0 fl oz/1000 sq ft Curative: 1-3.5 fl oz/gal</td>
</tr>
<tr>
<td></td>
<td>Gray Mold/Bud Rot (<em>Botrytis cinerea</em>)</td>
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</tr>
<tr>
<td>Greenhouse, Indoor-grown or Field-grown Hemp</td>
<td>Root Rot (<em>Pythium sp, Fusarium sp, Phytophthora sp, Rhizoctonia sp</em>)</td>
<td>Preventative: 0.4-0.5 fl oz/1000 sq ft Curative: 0.5-1 fl oz/gal</td>
</tr>
<tr>
<td>Greenhouse, Indoor-grown or Field-grown vegetables</td>
<td><em>Pythium sp, Phytophthora sp, Fusarium sp, Rhizoctonia sp, Botrytis sp, Xanthomonas sp</em></td>
<td>Preventative: 0.4-0.5 fl oz/1000 sq ft Curative: 0.5-0.75 fl oz/gal</td>
</tr>
</tbody>
</table>

**Caution / Precaución**

If you do not understand this label, find someone to explain it to you in detail. (Si usted no entiende la etiqueta, busque a alguien que se la explicue a usted en detalle.)

Greenspire Global Inc. represents that this product is a minimum risk pest control product and qualifies for exemption from EPA registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA 25b).

**Net 1 gallon**

(128 fl oz / 3.785 liters)
Label Review

Aza-Direct®
BOTANICAL INSECTICIDE

FOR ORGANIC PRODUCTION

OMRI LISTED

AZADIRACHTIN-BASED BOTANICAL ANTI FEEDANT, REPELLENT AND INSECT GROWTH REGULATOR
FOR USE ON GREENHOUSE AND OUTDOOR FOOD CROPS, ORNAMENTAL FLOWERS, TREES, SHRUBS AND PLANTS

ACTIVE INGREDIENT: Azadirachtin % By Wt. 1.2%
OTHER INGREDIENTS: 98.8%
TOTAL 100.0%

Contains 0.0987 lb. (44.8 g) azadirachtin per gallon.

MISCELLANEOUS, such as: Asparagus, Avocado, Banana, Coffee, Cocoa, Cranberry, Fig, Globe artichoke, Grape, Hops, Kiwifruit, Mango, Mushroom, Okra, Olives, Papaya, Pawpaw, Peanut, Persimmon, Pineapple, Pomegranate, Strawberry, Tea, Water chestnut, Watercress, and all other food crops.
**PyGanic**
Crop Protection EC 1.4

**Label Review**

** HERBS AND SPICES: ** Including: Allspice, Angelica, Anise (Anise seed), Anise (Star), Annatto (seed), Balm (Lemon Balm), Basil, Borage, Burnet, Caper Buds, Caraway, Caraway (Black), Cardamom, Cassia Bark, Cassia Buds, Catnip, Celery Seed, Chamomile, Chervil (dried), Chicory, Chive, Chive (Chinese), Cinnamon, Clary, Clove Buds, Coriander (Cilantro or Chinese Parsley) (leaf), Coriander (Cilantro) (seed), Costmary, Culantro (leaf), Culantro (seed), Cumin, Curry (leaf), Dill (Dill Weed), Dill (seed), Fennel (common), Fennel (Florence) (seed), Fenugreek, Grains of Paradise, Horehound, Hyssop, Juniper Berry, Lavender, Lemongrass, Lovage (leaf), Lovage (seed), Mace, Marigold, Marjoram (includes sweet or annual Marjoram, Wild Marjoram or Oregano, and Pot Marjoram), Mustard (seed), Nasturtium, Nutmeg, Oregano, Mint, Paprika, Parsley (dried), Pennyroyal, Pepper (Black), Pepper (White), Poppy (seed), Rosemary, Rue, Saffron, Sage, Savory (Summer and Winter), Sweet Bay (Bay Leaf), Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodruff, Wormwood.

**ACTIVE INGREDIENT:**
Pyrethrins a botanical insecticide .... 1.40%

**OTHER INGREDIENTS:** ............... 98.60%

This product contains 0.108 lbs. Pyrethrins per gallon.

EPA Reg. No. 1021-1771
EPA Est No. 1021-MN-2
## Label Review

**Activewear**

For use on outdoor and greenhouse food and non-food crops, ornamental flowers, trees, shrubs and plants.

### Active Ingredients

- **Capsaicin cayenne extract**: 7.6%
- **Garlic oil**: 23.4%
- **Soybean oil**: 59.3%
- **Other Ingredients**: 9.7%

*Contains 0.26% nominal concentration of Capsaicin and related capsaicinoids. Total 100.0%.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

### BRASSICA (COLE) LEAFY VEGETABLES

- Broccoli
- Cabbage
- Cauliflower
- Collards
- Corn Salad
- Cress (garden, upland)
- Dandelion
- Dock (sorrel)
- Endive (escarole)
- Fennel (florenc)
- Kale
- Kohlrabi
- Lettuce (head and leaf)
- Mizuna
- Mustard Greens
- Mustard Spinach
- Orach
- Parsley
- Purslane (garden, winter)
- Radicchio (red chicory)
- Rape Greens
- Rhubarb
- Spinach
- Spinach (New Zealand, vine)
- Swiss Chard
- Turnip Greens

### Other

- Asparagus
- Avocado
- Banana
- Coffee
- Cocoa
- Cranberry
- Fig
- Globe artichoke
- Grape
- Hops
- Kiwifruit
- Mango
- Mushroom
- Okra
- Olives
- Papaya
- Pawpaw
- Peanut
- Persimmon
- Pineapple
- Pomegranate
- Strawberry
- Tea
- Water chestnut
- Watercress
- and all other food crops

### POME FRUITS

- Apple
- Crabapple
- Loquat
- Mayhaw
- Quince
- Oriental Pear
- or Pear

- Arracacha
- Arrowroot
- Artichoke (Jerusalem, Chinese)
- Beet (garden, sugar)
- Burdock (edible)
- Canna (edible)
- Carrot
- Cassava (bitter and sweet)
- Celeriac (celery root)
- Chayote
Today was just a brief explanation of things. If you have any questions or concerns, please contact us and we will work with you to ensure you are in compliance.

San Diego County Department of Agriculture
Pesticide Regulation Program
(858) 694-8980 or prp.awm@sdcounty.ca.gov
Two office locations to serve you.

Kearney Mesa
9325 Hazard Way, Suite 100
San Diego, CA 92123

San Marcos
151 E. Carmel St.
San Marcos, CA 92069