SURFACE WATER PESTICIDE CONTAMINATION PREVENTION

Title 3 California Code of Regulations §6970 & §6972
Effective July 19, 2012

Dinna Morris
Senior Agricultural/Standards Inspector
March 28, 2013
Protect surface water from pyrethroid insecticide contamination.
<table>
<thead>
<tr>
<th></th>
<th>Active Ingredient (a.i.)</th>
<th>Example Product</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Bifenthrin</td>
<td>Talstar</td>
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<tr>
<td>2</td>
<td>Bioallethrin</td>
<td>Ace Wasp/Hornet Killer</td>
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<td>3</td>
<td>S-bioallethrin</td>
<td>Zep Ant &amp; Roach Spray</td>
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<tr>
<td>4</td>
<td>Cyfluthrin</td>
<td>Tempo 20 WP</td>
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<tr>
<td>5</td>
<td>Beta-cyfluthrin</td>
<td>Tempo SC, Cyguard</td>
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<tr>
<td>6</td>
<td>Gamma-cyhalothrin</td>
<td>Optimate CS</td>
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<tr>
<td>7</td>
<td>Lambda-cyhalothrin</td>
<td>Demand, Cyonara</td>
</tr>
<tr>
<td>8</td>
<td>Cypermethrin</td>
<td>Cynoff WP</td>
</tr>
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<tr>
<td>9</td>
<td>Deltamethrin</td>
<td>Enforcer, Deltagard, DeltaDust</td>
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<tr>
<td>10</td>
<td>Esfenvalerate</td>
<td>FenvaStar Plus</td>
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<tr>
<td>11</td>
<td>Fenpropathrin</td>
<td>Tame</td>
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<tr>
<td>12</td>
<td>Tau-fluvalinate</td>
<td>Mavrik</td>
</tr>
<tr>
<td>13</td>
<td>Permethrin</td>
<td>Permethrin SFR, Dragnet, Tengard</td>
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<tr>
<td>14</td>
<td>Phenothrin</td>
<td>Wasp-Freeze</td>
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<tr>
<td>15</td>
<td>Prallethrin</td>
<td>Onslaught</td>
</tr>
<tr>
<td>16</td>
<td>Resmethrin</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Tetramethrin</td>
<td>Wasp-X Wasp &amp; Hornet Spray</td>
</tr>
</tbody>
</table>
Aquatic Food Chain

Primary consumers
- Algae
- Daphnia sp.
- Delta Smelt *(Hyponesus transpacificus)*

Secondary consumers
- Hyalella sp.

Tertiary consumers
Regulatory Scope

- Reduce the amount of pesticides applied.
- Reduce exposure of pesticides to rainfall.
Types of Applications Covered

Pest Control Businesses, including Maintenance Gardeners.
Types of Applications Not Covered

* Homeowners
* Employees of . . .
  * An Agency
  * School
  * Institution
  * Business other than pest control/gardener
Types of Use Sites

- Outdoors
- Structural use sites
- Institutional, industrial, commercial, and residential landscapes
- Landscape around buildings and to buildings at parks, golf courses, and cemeteries
5 Types of Surfaces Covered

1) Soft surface: soil, gravel, mulch, lawn, turf, or groundcover

2) Granules spilled/spreader tossed onto hard impervious surface

3) Windows, doors, and horizontal impervious surfaces

4) Vertical surfaces, such as walls, foundations, and fencing

5) Prohibited Surfaces
1) Soft Surface application Methods, use:
- Spot treatment up to 2 square-feet
1) Soft Surface application
Methods, use:
- Spot treatment up to 2 square-feet
- Pin stream 1-inch wide or less
1) Soft Surface application

Methods, use:
• Spot treatment up to 2 square-feet
• Pin stream 1-inch wide or less
• Broadcast to within 2-feet
Perimeter band treatment of three feet wide or less from the base of a building outward.
2) **Sweep any granules that land on horizontal impervious surfaces onto the treatment site.**
(3) Windows, doors, and horizontal impervious surfaces, use:

- Crack and Crevice
- Spot treatment limited to 2 square-feet
- Pin stream of 1-inch wide or less
(4) Vertical surfaces, such as walls, foundations and fencing:

- Spot of 2 sq-ft
- Crack and Crevice
- Pin stream of 1-inch wide
- Perimeter band up to 2-feet from grade
5) PROHIBITED APPLICATIONS

During rain
(except under eaves)

Any surface with standing water
PROHIBITED APPLICATIONS

Made to trees or shrubs if there is standing water within their drip line.
PROHIBITED APPLICATIONS

Any construction component of a drainage system

Storm drain or curbside gutter
PROHIBITED APPLICATIONS

Visible French Drains

Landscaped dry river bed or swale
PROHIBITED APPLICATIONS

Within 25-feet of aquatic habitat located down gradient from the application
"Aquatic habitat" means bodies of water, such as lakes, reservoirs, rivers, perennial and intermittent streams, wetlands, or ponds, sloughs, and estuaries.
Summary & Conclusion

- 17 Pyrethroids regulated
- 5 Surface types
- Methods
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