BASF Products for use in Onions and Garlic

Curtis Rainbolt
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Can be applied after onions, garlic and shallots reach the 2-true leaf stage

Can be applied by ground, air, or chemigation

If applications are made to transplanted dry bulb onions, garlic and dry bulb shallots, **DO NOT** apply until transplants are in the ground and soil has settled around transplants with several days to recover

**Use rates**

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>&lt; 3% OM</th>
<th>&gt; 3% OM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse</td>
<td>12-14 oz/A</td>
<td>14-18 oz/A</td>
</tr>
<tr>
<td>Medium to Fine</td>
<td>14-18 oz/A</td>
<td>18-21 oz/A</td>
</tr>
</tbody>
</table>

If split applications are made, maintain a minimum of 14 days between sequential applications.

**DO NOT** apply more than a total of 21 fluid ounces of Outlook per acre in a single growing season.

30 day PHI
Weeds Controlled with Outlook

- **Annual Grasses:**
  - Barnyardgrass
  - Bluegrass, annual
  - Brome, California and downy
  - Crabgrass, large and smooth
  - Cupgrass, Southwestern
  - Fescue, rattail
  - Foxtail, giant, green and yellow
  - Goosegrass
  - Johnsongrass (seedling)-S
  - Millet, wild proso-S
  - Panicum, fall and Texas-S
  - Ryegrass, Italian
  - Sandbur-S
  - Signalgrass, broadleaf
  - Witchgrass

- **Annual Broadleaves:**
  - Amaranth, Powell and Palmer
  - Carpetweed
  - Chamomile, mayweed
  - Lambsquarters, common-S
  - Nightshade, black
  - Nightshade, cutleaf
  - Nightshade, Eastern black
  - Nightshade, Hairy
  - Pigweed, redroot
  - Pigweed, tumble
  - Purslane, common
  - Ragweed, common-S

- **Sedge:**
  - Nutsedge, yellow
For weed control in Direct Seeded or Dry Bulb Onions and Dry Bulb Shallots

- Can be applied from 2\textsuperscript{nd} to 6\textsuperscript{th} leaf stage
- May be applied by ground, air, or chemigation (sprinklers)
- Do not irrigate in more than 0.5 inch of water
- Rates based on soil type

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse</td>
<td>1.5 pt/A</td>
</tr>
<tr>
<td>Medium</td>
<td>2.0 pt/A</td>
</tr>
<tr>
<td>Fine</td>
<td>3 pt/A</td>
</tr>
</tbody>
</table>

- Do not exceed 3.2 pints per acre per year
- REI is 24 hours
- PHI of 60 days
Prowl H2O Supplemental Label for Loop Stage Applications in Direct Seeded Onions

- Can be applied by ground only (minimum of 10 GPA)
- Apply when onions are in loop stage
- Rates based on soil type
  - Coarse: 1-1.5 pt/A
  - Medium: 1-1.5 pt/A
  - Fine: 1.5 pt/A
- Do not apply more than 0.25 inches of initial overhead irrigation following application
- Prowl H2O may be applied sequentially in direct seeded onions*
- Do not exceed 3.2 pints per acre in onions per year
- REI is 24 hours
- PHI is 60 Days
- SLN label for Lassen, Modoc, Shasta and Siskiyou Counties
- For control of Kochia
- Is only distributed by California Garlic and Onion Research Advisory Board
- Requires and liability and indemnification waiver
- Allows for “delayed preemergence” application in onions
  - Apply after germination, but before emergence (when 75% of the radicles have developed on onion seedlings)
For in-furrow control of White Rot (*Sclerotium cepivorum*) in Garlic and Onions

- Begin prior to disease development
- Continue to apply on a 7-14 day schedule
- Can apply by ground, air, or chemigation

Application rate 6.8 oz/A, maximum of 6 applications or 41 oz/A per season

Resistance management – do not make more than 2 applications before alternating to a different mode of action

PHI is 7 days
BASF Fungicides for Onions, Garlic, Leeks, and Shallots

- **Endura**
  - For control of Botrytis leaf blight and purple blotch

- **Pristine**
  - For control of Botrytis leaf blight, purple blotch, Stemphylium leaf blight, and suppression of downy mildew

- **Zampro and Forum**
  - For control of downy mildew

- **Cabrio**
  - For control of powdery mildew, purple blotch, and rust
Thank You!

Questions?