Alto 100SL approved for soybean rust

Daren S. Mueller  
_Iowa State University, dsmuelle@iastate.edu_

Chuck Eckermann  
_Iowa Department of Agriculture, chuck.eckermann@iowaagriculture.gov_

Follow this and additional works at: http://lib.dr.iastate.edu/cropnews

Part of the Agricultural Science Commons, Agriculture Commons, and the Plant Pathology Commons

Recommended Citation  
http://lib.dr.iastate.edu/cropnews/1245

The Iowa State University Digital Repository provides access to Integrated Crop Management News for historical purposes only. Users are hereby notified that the content may be inaccurate, out of date, incomplete and/or may not meet the needs and requirements of the user. Users should make their own assessment of the information and whether it is suitable for their intended purpose. For current information on integrated crop management from Iowa State University Extension and Outreach, please visit https://crops.extension.iastate.edu/.
Alto 100SL approved for soybean rust

Abstract
The fungicide Alto 100SL (cyproconazole), manufactured by Syngenta Crop Protection, Inc., has been approved as a Section 18 fungicide in Iowa, effective on April 19, 2006. The exemption will expire on April 19, 2009. Alto 100SL is a systemic, triazole fungicide with early infection and protectant activity. It has post-infection activity that can stop pathogen establishment in the early phases of disease development. Alto 100SL also can stop sporulation, reduce inoculum production, and slow disease progress.

Keywords
Plant Pathology

Disciplines
Agricultural Science | Agriculture | Plant Pathology

This article is available at Iowa State University Digital Repository: http://lib.dr.iastate.edu/cropnews/1245
Several insecticides are labeled for black cutworms in corn. Several years ago, research showed that after application, rotary hoeing in dry soils increases the effectiveness of Lorsban®, but that the pyrethroids (such as Ambush®, Pounce®, or Warrior®) should not be incorporated.

Marlin E. Rice is a professor of entomology with extension and research responsibilities in field and forage crops. Rich Pope is an extension program specialist in entomology with responsibilities in integrated pest management.

### Insecticides labeled for black cutworms in corn

<table>
<thead>
<tr>
<th>Insecticide</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambush</td>
<td>6.4–12.8 oz/acre</td>
</tr>
<tr>
<td>Asana XL</td>
<td>5.8–9.6 oz/acre</td>
</tr>
<tr>
<td>Baythroid 2</td>
<td>0.8–1.6 oz/acre</td>
</tr>
<tr>
<td>Capture 2EC</td>
<td>2.1–6.4 oz/acre</td>
</tr>
<tr>
<td>Discipline 2EC</td>
<td>2.1–6.4 oz/acre</td>
</tr>
<tr>
<td>Lorsban 4E</td>
<td>1–2 pt/acre</td>
</tr>
<tr>
<td>Mustang Max</td>
<td>1.28–2.8 oz/acre</td>
</tr>
<tr>
<td>Nufos 4E</td>
<td>1–2 pt/acre</td>
</tr>
<tr>
<td>Penncap-M</td>
<td>4 pt/acre</td>
</tr>
<tr>
<td>Pounce 3.2EC</td>
<td>4–8 oz/acre</td>
</tr>
<tr>
<td>Sevin XLR Plus</td>
<td>2 qt/acre</td>
</tr>
<tr>
<td>Warrior</td>
<td>1.92–3.2 oz/acre</td>
</tr>
</tbody>
</table>

### Plant Diseases

#### Alto 100SL approved for soybean rust

by Daren Mueller, Department of Plant Pathology, and Chuck Eckermann, Iowa Department of Agriculture and Land Stewardship

The fungicide Alto 100SL (cyproconazole), manufactured by Syngenta Crop Protection, Inc., has been approved as a Section 18 fungicide in Iowa, effective on April 19, 2006. The exemption will expire on April 19, 2009. Alto 100SL is a systemic, triazole fungicide with early infection and protectant activity. It has post-infection activity that can stop pathogen establishment in the early phases of disease development. Alto 100SL also can stop sporulation, reduce inoculum production, and slow disease progress.

All applicable directions, restrictions, and precautions on Alto must be followed. Listed are some restrictions for Alto 100SL.

- Apply 2.75 to 4 fluid ounces active ingredient (a.i.) per acre. The lower use rate of 2.75 oz is for V-stage infections only. Use 4 oz of product for sprays at the R stages of development.
- A maximum of two aerial or ground applications may be made.
- A second application can be made 14 to 21 days after first application.
- A restricted entry interval (REI) of 12 hours must be observed.
- There is a 30-day preharvest interval.
- Wheat and corn may be planted 180 days after the last application of Alto 100SL. Planting of other crops within 365 days after the last application is prohibited.
- The use of soybean forage and hay treated with Alto 100SL is prohibited.
- Treatments under this Section 18 program may be made to soybean to control soybean rust.
- A maximum of 7.4 million acres of soybean may be treated in Iowa.
- Applicators must wear protective (chemical-resistant) gloves.
- Any unused, unregistered product must either be returned to the manufacturer or distributor (unopened containers) or disposed of in accordance with Resource Conservation and Recovery Act regulations following the expiration of this quarantine exemption.

Daren Mueller is an extension plant pathologist with the Iowa State University Corn and Soybean Initiative and the Pest Management and the Environment Program. Chuck Eckermann is bureau chief of the pesticide bureau at the Iowa Department of Agriculture and Land Stewardship.