Rogue™ – A Novel Herbicide for US Rice Production

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• Benzobicyclon is the first HPPD inhibitor (Group 27) for US rice
• Formulated as a 3.3 SC with the trade name of Rogue™
• Use rate of 8.4 – 12.8 oz./A.
• Post-flood pre-emergence and post-emergence weed control for water-seeded and drill-seeded rice
• Apply to submerged weeds as soon as a stable flood is established
• Extremely safe to inbred and hybrid rice in field trials
Rogue™ Herbicide for Mid-South Rice

- Barnyardgrass must be \( \leq 2 \) leaves at time of application for control
- Tank-mixing Permit® or Permit Plus® with Rogue enhances control of barnyardgrass, yellow nutsedge, sesbania and jointvetch
- Ground and aerial application with NIS or COC
- Maintaining a deep and stable flood enhances weed control
- Rogue can only be used on rice that is followed by rice
- No more than one application of Rogue per year
Rogue™ Herbicide for Mid-South Rice

Rogue applied alone -

<table>
<thead>
<tr>
<th>Weeds controlled</th>
<th>Weeds suppressed</th>
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<tbody>
<tr>
<td>Ducksalad</td>
<td>Barnyardgrass</td>
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<tr>
<td>Smallflower umbrella sedge</td>
<td>Hemp sesbania</td>
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<td>Rice flatsedge</td>
<td>Jointvetch</td>
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<tr>
<td>Amazon sprangletop</td>
<td>Yellow nutsedge</td>
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<tr>
<td>Bearded sprangletop</td>
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<tr>
<td>Red sprangletop</td>
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<td>Water hyssop</td>
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<tr>
<td>Roundleaf mudplantain</td>
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<td>California arrowhead</td>
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<td>Winged waterprimrose</td>
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<tr>
<td>Globe fringebrush</td>
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</tbody>
</table>
• For optimum results with Rogue on drill-seeded rice:
  – Apply as soon as a stable flood is established
  – Maintaining a deep (3-4 in.) flood enhances weed control
  – Apply to weeds that are submerged at the time of application
  – Side inlet irrigation is ideal for maintaining placement of the herbicide in the field. Avoid use on fields with gravity irrigation and short distances between levees.
• **Registration Status**
  
  – Benzo was submitted concurrently to the EPA and CDPR in December 2014
  – Benzobicyclon was accepted as a reduced risk pesticide
  – Butte® (3% benzobicyclon + 0.64% halosulfuron granular formulation) was the only product submitted
  – Registration in CA is expected in 2016
  – The Mid-South registration package for Rogue is expected to be delivered to EPA in 2016
  – The registration package for Rogue Plus will follow the submission of Rogue
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Questions?