

Headline[®] Fungicide for Sunflower Rust Control

Technical Use Information

Summer 2008 ALERT!



Sunflower Diseases Controlled by Headline

- Rust (*Puccinia helianthi*)
- White rust (*Albugo tragopogonis*)
- Alternaria leaf spot (*Alternaria* spp.)
- Cercospora leaf spot (*Cercospora helianthi*)
- Powdery mildew (*Erysiphe cichoracearum*)
- Septoria leaf spot (*Septoria* spp.)
- Downy mildew (*Plasmopara halstedii*)

Recently, high levels of sunflower rust at various developmental stages have been identified in sunflower fields throughout ND. The potential economic loss when rust occurs this early in the crop can be very significant. It is critical that growers monitor fields and reports on the disease development in their area on a regular basis.

Headline[®] fungicide is registered for control of sunflower rust and is highly effective against rust diseases, when applied according to label recommendations. **Rate & application timing are very important in preventing and / or containing development of sunflower rust.** The following information is based on best use practices to obtain the maximum effectiveness against sunflower rust.

Application Timing & Rate

-Prior to disease onset, for maximum disease control & residual protection.

Headline will provide 14 – 28 days of residual protection against sunflower rust, when applied prior to disease development. Apply Headline at **6 – 9 fl oz/A**. The higher rate will provide longer residual protection. Depending on environmental conditions, a follow up application may be needed.

-If disease is visibly present, Headline will halt further development of the disease, although some damage to the crop may have already occurred.

Apply Headline at **9 – 12 fl oz/A**.

Application Information

- Headline Rate: **6 – 12 fl oz/acre**
- Adjuvant: **Nonionic surfactant at 1 quart / 100 gallons of spray solution**
- Spray Volume: **10 – 20 gpa ground; 5 gpa air**
Thorough coverage of plant foliage is important to obtain maximum effectiveness.
- May be tankmixed with insecticides or herbicides.
- Preharvest Interval = **21 days**
- Maximum Product / Season = **24 fl oz/acre**
- Maximum Number of Sequential Applications = **2**