



## Seed Treatment Tech Sheet



# Forage Sorghum and Sorghum Sudan Treatment



### Understanding seed treatments on Alta Sorghum products

Alta brand forage sorghums and sorghum-sudans come with the same seed treatment package that is a combination of fungicides and storage insecticides, with one exception—treated forage sorghums also include Concep, an herbicide antidote for seed safening.

**Concep III:** Herbicide antidote/seed safener that protects grain and forage sorghum (*Sorghum bicolor*) from herbicidal injury due to metolachlor or S-metolachlor (contained in the herbicide brands Bicep® and Dual®). Bicep and Dual brands and other products containing metolachlor and S-metolachlor will generally cause severe sorghum injury without a Concep III seed treatment. Concep III protects sorghum from the phytotoxic effects of metolachlor and S-metolachlor only and not from other herbicide components, including the triazine component of Bicep brands. **Active Ingredient:** Fluxofenim 74.3%

The tag may contain the code MAS, MASC, or MASCN. Concep (the “C”) is predominantly used on forage sorghum, occasionally on sorghum-sudan, and never on sudangrass (the Dual Magnum herbicide is not labeled for sudangrass). Treatments that do not contain Concep will be coded as “MAS”.

### Here’s what each letter in the code represents by active ingredient:

**M—Fludioxonil** (“Medallion”) A broad spectrum fungicide that is non-systemic and has a long residual activity. The mode of action is the inhibition of transport-associated phosphorylation of glucol, as well as preventing glycerol synthesis. As a broad-spectrum fungicide, fludioxonil is effective against most major seed diseases, including Seedling Blight, Stem-Base Browning, Snow mold, and Common Bunt.

**S—Chlorpyrifos-Methyl and Deltamethrin** (“Storicide II”) - A storage insecticide treatment. For protection of stored seed against injury from stored grain insects including lesser grain borer, larger grain borer, Angoumois grain moth, Indianmeal moth, tobacco moth, dermestids, granary weevil, rice weevil, maize weevil, bean weevil, saw-toothed grain beetle, red flour beetle, and confused flour beetle. Seed treatment is limited to seeds with stored grain tolerances, wheat, barley, oats, rice and sorghum (milo).

**A—Metalaxyl** (“Apron”) - Metalaxyl is a systemic fungicide used to control plant diseases caused by the Oomycetes or water-mold fungi.

**C—Fluxofenim** (“Concep III”). Seed safener, see above.

**N—Clothianidin** (“Nipsit INSIDE”) Systemic insecticide, generally used only in southern climates. Provides seed and early seedling protection against some early-season insects. Used in sorghums, Nipsit primarily provides protection against chinch bugs.



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High Energy Forages and Soil Building Cover Crops



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### Understanding Seed Treatments on KingFisher sorghum products

As with Alta products, treated KingFisher forage sorghum contains the seed safener Concep, while sorghum-sudans do not contain this.

Aside from Concep, here are some products you may find in your KingFisher sorghum seed treatment.

**Metalaxyl** (“Sebring”) - Protects a broad range of crops against *Pythium* spp., *Phytophthora* spp. and systemic downy mildew to help increase stands. Systemic control activity to reach throughout growing plants

**Thiram 480 g/l** (“Signet 480 FS”) Preventive and curative activity against seed- and soil-borne organisms. Can help increase stand and maximize yield by reducing loss from seed decay, damping-off and seedling blights. High-quality formulation for convenient application.

**Chlorpyrifos-Methyl and Deltamethrin** (“Storcide II”) - A storage insecticide treatment. For protection of stored seed against injury from stored grain insects including lesser grain borer, larger grain borer, Angoumois grain moth, Indianmeal moth, tobacco moth, dermestids, granary weevil, rice weevil, maize weevil, bean weevil, saw-toothed grain beetle, red flour beetle, and confused flour beetle. Seed treatment is limited to seeds with stored grain tolerances, wheat, barley, oats, rice and sorghum.

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