

SUNFLOWER SEEDS



The BUG FREE GRAINS Solution for Sunflower Operations

Whether you are a grower or processor, controlling insects is a key measure in protecting your profitability.

Insects such as Indian meal moths, lesser grain borers and saw-toothed grain beetles can be persistent insect pests in sunflower facilities. As they feast on the sunflower seeds, insects leave behind broken shells and dust, and they can contaminate your production process with insect parts and other detritus.

Protect Against Infestations with Diacon® IGR Products

Diacon® IGR and the dry formulation Diacon®-D IGR are approved for use on all grains, spices, feeds and seeds, including commodities for human and animal consumption. The active ingredient in Diacon® IGR products, (S)-methoprene, is an insect growth regulator with a long residual. The products work by interfering with the insects' life cycles and preventing them from reaching maturity or reproducing, rather than controlling target pests through direct toxicity.

In addition to treating raw commodities, Diacon® IGR products may also be used in processing facilities as a fogging concentrate or surface spray for the treatment of insect pests. Adding Diacon® IGR products to incoming sunflower seeds can protect them from insect-related contamination and damage, preserving their quality and helping to ensure your profits are not impacted.

YOU CAN HELP PREVENT INSECT INFESTATIONS WITH A S.L.A.M. STRATEGY

- **Sanitation** – prior to storage, clean the storage facilities and handling equipment thoroughly and spray with Diacon® IGR
- **Loading** – incorporate Diacon® IGR products while loading sunflower seeds
- **Aeration** – properly lower stored sunflower seed temperature
- **Monitoring** – watch for early signs of infestation and sample regularly



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Control Infestations, Prevent Contamination and Alleviate Economic Damage with Diacon® IGR and Diacon®-D IGR

Diacon® IGR is a versatile liquid formulation that goes where sunflower seed destroying insects go to provide long-term control and profit protection. Diacon®-D IGR is a ready-to-use, dry formulation solution that can protect sunflower seeds in a variety of storage sites, including water challenged situations.

PRODUCTS OFFER:

- Cost-effective, long-term control
- A range of application rates to fit storage parameters
- No withdrawal or holding period; Treated commodities may be processed immediately
- EPA tolerance exempt status
- Stability at high heat
- CODEX MRL of 4 parts per million for allowable residues on oilseeds, including sunflower seeds (Confection and oilseeds)

HOW TO APPLY DIACON® IGR:

- A simple spray tank and nozzle system can be used to apply directly to incoming stream of sunflower seeds
- The most common use rate for prevention of insect infestation is 4 fluid oz. of Diacon® IGR + 5 gal. of water per 1,000 Bu. of sunflower seeds

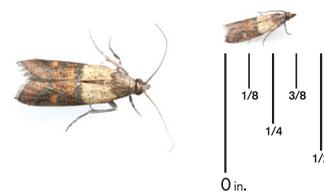
HOW TO APPLY DIACON®-D IGR:

- Wearing a dust mask and protective gloves, apply directly to sunflower seeds as they are loaded into storage
- Apply at a rate of 8-10 lbs. of Diacon®-D IGR per 1,000 Bu. of sunflower seeds



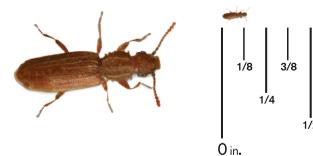
For more information about protecting sunflower seeds and other oilseeds with Diacon® IGR, contact your distributor or visit BugFreeGrains.com.

KNOW THE ENEMY



INDIAN MEAL MOTH *Plodia interpunctella*

Larvae produce dense webbing that binds to food fragments; adult insects flying in vicinity of feed.



SAW-TOOTHED GRAIN BEETLE *Oryzaephilus surinamensis*

Lead to overheating of seeds and produce a visible population buildup.



LESSER GRAIN BORER *Rhyzopertha dominica*

Produce a "shot hole" appearance in damaged seeds and are associated with a sweet, musty odor.