

## **GRAIN SORGHUM (MILO) - POSTEMERGENCE (8 TO 15 INCHES TALL) (USE ONLY DIRECTED SPRAY) - NORMAL RATES**

### General Information

#### USE INSTRUCTIONS

Hi-Dep Broadleaf Herbicide consists of the dimethylamine and diethanolamine salts of 2,4-D especially formulated for low volume applications with aerial and ground equipment. This product must be applied in compliance with the pesticide regulations of the state in which application is made. Check with local authorities regarding regulations which may affect the application of this product.

**AERIAL APPLICATION:** Use spray volumes equal to or greater than 2 gallon per acre. This minimum spray volume is a requirement of the 2,4-D Reregistration Eligibility Decision (RED). Spray volume at this minimum provide more effective weed control and better economy.

**AIRCRAFT SPECIFICATIONS (FIXED WING OR ROTARY WING):** Number of nozzles required to obtain desired volume per acre is dependent on swath width and speed of aircraft. Nozzles should be positioned between 135° and 175° from direction of flight for fixed wing. **DO NOT APPLY THROUGH BECO-MIST NOZZLE SYSTEMS.** See manufacturer's technical bulletin regarding nozzles and application specifications.

**GROUND APPLICATION:** Apply in water, 2 to 10 gallons total solution per acre with conventional equipment. Low spray volumes (2 to 5 gallons per acre) may provide more effective weed control and better economy.

**PRECAUTION FOR PAINTS AND COATINGS OF AUTOMOBILES AND OTHER VEHICLES:** Undiluted spray droplets may damage the paint, coating, or finish of vehicles. Vehicles should not be sprayed. If accidental exposure does occur, then the vehicle should be washed before the spray droplets dry.

**Susceptible Plants.** Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, grapes (in growing stage), fruit trees (foliage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other

vegetables, or tobacco. Small amounts of spray drift that might not be visible may injure susceptible broadleaf plants.

**Other State and Local Requirements.** Applicators must follow all state and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

**Equipment.** All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

**Additional requirements for ground boom application.** Do not apply with a nozzle height greater than 4 feet above the crop canopy.

**Additional requirements for aerial applications.** The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter. Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. This requirement does not apply to forestry or rights-of-way applications. When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this by adjusting the path of the aircraft upwind.

#### Limitations, Restrictions, and Exceptions

**Recommended Spray Volume:** 2 to 10 gal/A

Sorghum hybrids vary in tolerance to 2,4-D; some are easily injured. Before spraying, obtain information on 2,4-D tolerance of specific hybrids and spray only those known to be tolerant to 2,4-D injury. If plants are more than 8 inches tall, use directed spray and keep off sorghum foliage.

**Maximum Rate per Application:** 1.0 lb 2,4-D ae/A

**Minimum Spray Volume:** 2 gal/A

**POSTEMERGENT APPLICATIONS FOR GRAIN SORGHUM (MILO):** Postemergent applications of Hi-Dep are recommended during the 4-leaf stage up to the boot stage of the grain sorghum. Broadcast applications are recommended for the 4 to 6-leaf stage of grain sorghum or approximately 14 to 21 days after emergence. Only directed sprays to the inter-rows are recommended for the 6-leaf stage until

the boot stage of the grain sorghum or approximately 21 to 50 days after emergence.

**EARLY POSTEMERGENCE:** Grain sorghum height of 4 to 8 inches, or from 4-leaf until 6 leaf grain sorghum, or approximately 14 to 21 days after emergence. Apply 2/3 to 1 pint of Hi-Dep per acre as a broadcast treatment. Temporary crop injury can be expected under conditions of high soil moisture and high air temperature. If it is necessary to apply under these conditions, use no more than 2/3 pint of product per acre.

**LATE POSTEMERGENCE:** Grain sorghum height greater than 8 inches, or from 6-leaf stage until boot stage of grain sorghum, or approximately 21 to 50 days after emergence. Use nozzle extensions or drop nozzles for a directed spray to the inter-row areas only. (See Diagram 1 shown in the instructions for corn.) Ensure uniform coverage of target weeds. Direct the spray beneath the sorghum canopy away from base of the grain sorghum plants. Minimize the coverage of the grain sorghum leaves and avoid spray deposits in the whorl. Do not apply after the boot stage of grain sorghum.

The broadcast dosage rates must be adjusted for this inter-row application. Specifically, multiply the broadcast dosage rate times the fraction of the row width covered by the spray pattern.

Method

[Directed Spray](#)

Pre-Harvest Interval

30 days

Rates

[field\\_rates 0](#)

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Restricted Entry Interval

48 hours

Timings

[Postemergence \(Crop\)](#)