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Milogard® 4L

Herbicide

seed control in sorghum (milo) and sweet sorghum

Caution:
Keep out of reach of children.

Milogard 4L contains the active ingredient propazine, 43%.

Harmful if swallowed. Prolonged or repeated inhalation of mist or contact with skin may be harmful.

Do not contaminate domestic irrigation water supplies, lakes, streams, or ponds.

Do not reuse container. Destroy when empty.

Milogard is a trademark of CIBA-GEIGY for propazine. U.S. Patent No. 2,891,355.

EPA Reg. No. (N-1)

Agricultural Division
CIBA-GEIGY Corporation
P.O. Box 400, North Carolina 27402

Standard Measure: 1 Gallon

CIBA-GEIGY

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

General Information

Milogard 4L is a selective herbicide that may be applied before planting or after planting before sorghum or weeds emerge. Milogard 4L controls annual morningglory, carpetweed, lambsquarters, pigweed, ragweed, foxtail, smartweed, and velvetleaf.

Since Milogard enters the weeds mainly through their roots, incorporation or moisture is needed to move it into the weed root zone. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control. Use for weed control in greenhouses.

ACCEPTED

Oct 6, 1966

Mixing Instructions
Mix this product with water, nitrogen solutions, or complete liquid fertilizers and apply as a spray. Pour this product into the tank during or after filling. Hydraulic (jet) or mechanical agitation is recommended during mixing and application to keep the material in suspension. All return lines to the tank must discharge below liquid level and agitation should not be so violent as to cause air bubbles to form in the liquid. Wash thoroughly after use.

Compatibility
When mixing with water, nitrogen solutions, or complete liquid fertilizers and apply as a spray. Pour this product into the tank during or after filling. Hydraulic (jet) or mechanical agitation is recommended during mixing and application to keep the material in suspension. All return lines to the tank must discharge below liquid level and agitation should not be so violent as to cause air bubbles to form in the liquid. Wash thoroughly after use.

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Ground Application

For the most uniform distribution of broadcast applications use flat fan-type nozzles. For band applications, use flat fan even spray nozzles. Screens and strainers should be no finer than 50-mesh. Use a pump with capacity to (1) provide sufficient hydraulic agitation during mixing and application to keep the material in suspension and (2) maintain 30-40 psi operating pressure. Use a minimum of 10 gals. of water per acre. For band treatments, use a proportional volume.

For band applications, calculate the amount to be applied per acre as follows:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \frac{\text{broadcast rate per acre}}{\text{rate per acre}} = \text{amount needed per acre}$$

Aerial Application

Apply in a minimum of 5 gals. of water per acre. Do not apply where uniform coverage cannot be obtained or where excessive spray drift may occur. Avoid application directly to humans or animals. Flagmen or loaders should avoid inhalation of spray mist or contact with skin and should wash thoroughly before eating and at the end of each day's operation.

Directions for Use

For preplant and preemergence applications, nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier with this product. See mixing instructions, under General Information.

Preplant (Kansas, Nebraska, eastern Colorado, and South Dakota)

Apply in the spring after plowing. If sorghum is planted on a flat soil surface, apply during or after final seedbed preparation. If sorghum is planted on beds, apply only after bed formation. Best weed control results are obtained when this product is applied within 2 weeks before planting. Shallow incorporation, not more than 2 inches deep, following application will generally result in better weed control, particularly under dry or minimum moisture conditions.

Broadleaf and grass weed control

Soil texture	Broadcast* rate per acre
Sand, loamy sand	DO NOT USE
Sandy loam, loam	4 pts.
Silt loam, clay loam	4.8 pts.
Heavy clay or high organic matter soil	DO NOT USE

*See the General Information section to calculate amount per acre for band treatment.

Preplant (Oklahoma, New Mexico, Texas, the Gulf Coast states, Arkansas, and Georgia)

Apply this product in the spring after plowing. If sorghum is planted on a flat soil surface, apply during or after seedbed preparation. If sorghum is planted on beds, apply only after bed formation. Best weed control results are obtained when this product is applied within 4 weeks before planting. Shallow incorporation, not more than 2 inches deep, following application will generally result in better weed control, particularly under dry or minimum moisture conditions. Do not incorporate preplant applications on sandy loam soils in the states listed in this section.

Soil texture	Broadleaf weed control	Broadleaf and grass weed control
	Broadcast* rate per acre	Broadcast* rate per acre
Sand, loamy sand	DO NOT USE	DO NOT USE
Sandy loam, loam	2.4 pts.	4 pts.**
Silt loam, clay loam	2.4 pts.	4.8 pts.
Heavy clay or high organic matter soil in the Gulf Coast states, Arkansas, and Georgia	2.4 pts.	6.4 pts.

*See the General Information section to calculate amount per acre for band treatment.

**To avoid crop injury, use only 2.4 pts. per acre on sandy loam in Oklahoma, New Mexico and Texas (except Texas Gulf Coast). Controls broadleaf weeds only.

Preemergence

Apply the amount shown in the following table at planting time or immediately after planting before weeds and sorghum emerge.

Soil texture	Broadleaf weed control (Oklahoma, New Mexico, Texas and desert regions of Arizona and California only)	Broadleaf and grass weed control (all areas except as noted)
	Broadcast* rate per acre	Broadcast* rate per acre
Sand, loamy sand	DO NOT USE	DO NOT USE
Sandy loam, loam	2.4 pts.	4 pts.**
Silt loam, clay loam	2.4 pts.	4.8 pts.
Heavy clay or high organic matter soil in the Gulf Coast states, Arkansas, and Georgia	2.4 pts.	6.4 pts.

*See the General Information section to calculate amount per acre for band treatment.

**To avoid crop injury, use only 2.4 pts. per acre on sandy loam in Oklahoma, New Mexico, and Texas (except Texas Gulf Coast). Controls broadleaf weeds only.

Precaution (both preplant and preemergence). Crop damage may result from applications on highly alkaline soil, or on eroded areas.

Rotational Crops: Do not rotate to any crop other than sorghum except 1) In Arkansas, Louisiana, the Texas Gulf Coast, Texas Blacklands, and the Southeast, cotton, soybeans, or corn may be planted 12 months after treatment. Do not plant other crops for 18 months after treatment. 2) In Oklahoma, New Mexico, and

West Texas, cotton or corn may be planted 12 months after a broadcast application of 2.4 pts. or after a 10-20 inch band application which was proportional to a broadcast rate of 4 pts. or less. If a higher rate per acre was used in these areas, only corn may be planted 12 months after treatment. Do not plant other crops for 18 months after treatment. 3) In all other sorghum growing regions, corn may be planted 12 months after treatment. Do not plant other crops for 18 months after treatment. 4) If replanting is necessary, sorghum may be replanted in soil treated with this product. Do not make a second application as injury may occur.

Milgard® trademark of CIBA-GEIGY for propazine

U.S. Patent No. 2,891,855.