

10F2
PM25
524-152
76

NET 50 LBS.

RAMROD. 20

Granular



ACCEPTED
JAN 28 1985
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 524-152



Granular

RAMROD. 20

SELECTIVE HERBICIDE

For pre-emergence weed control in field corn, hybrid seed corn, silage corn, sweet corn, and grain sorghum (milo); and soybeans (for seed only).

READ "LIMIT OF WARRANTY AND LIABILITY" BEFORE BUYING OR USING IF TERMS ARE NOT ACCEPTABLE, RETURN AT ONCE UNOPENED

KEEP OUT OF REACH OF CHILDREN.

WARNING!
IRRITATING TO SKIN, EYES, NOSE AND THROAT.
MAY CAUSE ALLERGIC SKIN REACTION.

Avoid contact with eyes and skin.
While handling, wear freshly laundered cotton or clean rubber gloves.
Avoid breathing dust.
Do not take internally.
In case of contact, flush skin or eyes with plenty of water; for eyes, get medical attention.
Wash thoroughly after handling.
Launder clothing before re-use.
Avoid contamination of seed, feed, and foodstuffs.

NET WT. 50 LBS.

Use only according to label instructions.
See label for information on packaging.

ACTIVE INGREDIENT	20%
2-chloro-N-isopropylacetanilide	90%
INERT INGREDIENTS:	100%

MINIATURE FACSIMILE
Type Size Meets Requirements
PRINT: PMS 392 Green



but not limited to incompatibility with products other than those set forth in the Directions, or usual weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied with the normal range being determined on the basis of the average range for the prior 40 years computed from the best available information, and weather perils including but not limited to hurricanes, tornadoes and floods as well as weather considerations set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil or crop.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE LIMIT OF LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED OR AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY OR IF NOT ACQUIRED BY PURCHASE, REFUNDMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR AN INCIDENTAL OR CONSEQUENTIAL DAMAGES.

The buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

GENERAL INFORMATION

Ramrod 20 is recommended for use as a pre-emergence herbicide to control most annual grasses and certain broadleaf weeds. It should be applied to the soil surface prior to weed or crop emergence. The soil surface should be freshly worked and free of weed top growth. The seed bed should be fine, firm and free of clods and trash.

Some moisture either as rain or irrigation is required soon after application to activate Ramrod 20. On light sandy loam soil one-third inch of rainfall and on heavy clay and/or high organic soils one-third to three-fourths inch of rainfall is required depending upon original soil moisture. Best results are obtained when moisture occurs within 10 days after application. Generally lower amounts of rainfall are required where soil moisture is high at time of planting.

Ramrod 20 with lesser amounts of rainfall in some instances will allow the grass seedlings to emerge, but they will be severely stunted and with a subsequent cultivation they can be covered up.

If soil crusting becomes a problem and hoeing is necessary, hoe in the same direction the rows are planted.

Where deep lister planting is practiced only partial weed control can be expected on steep furrow sides. It is suggested that a 7 inch band be applied at the bottom of the furrow. Best results can be expected where the granules lie on an even flat surface not subject to shifting by wind or rain.

With broadcast treatment, 1/3 to 2/3 Ramrod 20, controlling the grasses and weeds. There is no need for cultivation. For band treated fields, when first cultivation is made, set cultivator to follow 2/3 into the 1/3 covering the band.

NOTE: Rates of application given on this label are general. Consult your Agricultural Experiment Station or Extension Service. Weed species and methods of application, dosage and methods of application.

Eleusine indica	Grassweed
Barrygrass	Senecio vulgaris
(Watergrass)	Lambquarters
(Chenopodium crusgalli)	Chenopodium album
Carpetweed	Pigweed
Mollis perfoliata	Amaranthus spp.
Crochgrass	Pansies
Digitaria spp.	Portulaca oleracea
Fall Panicum	Ragweed
Panicum	Ambrosia artemisiifolia
debortianiflorum	Sambur
Florida Panicum	Cenchrus spp.
Richardia scabra	Shepherdspurse*
Coast Foxtail (Wild Millet)	Caryota burra-pastora
Setaria fabiana	Smartweed*
Green Foxtail	Polygonum persicaria
Setaria viridis	only
Yellow Foxtail	Wild Buckwheat*
Setaria glauca	Polygonum convolvulus

*At 25 to 30 pounds per acre granular Ramrod 20 Granular Ramrod 20 WILL NOT CONTROL Johnson grass, Canada thistle, field bindweed, quackgrass, morningglory, cocklebur and bull thistle.

CALIBRATION AND APPLICATION INSTRUCTIONS

It is important that the applicator be calibrated properly to deliver the desired amount of Ramrod 20 to avoid applying too little or too much material. To calibrate, attach a cloth bag or strong plastic bag over the spreader plate or remove the delivery tube and attach a plastic nursing bottle over the spout. Operating over normal terrain to be planted, at planting speed collect the granules for five hundred (500) linear feet and measure the VOLUME ounces collected. Use the following table to determine the correct volume of granules required for a 14 inch band at a given broadcast application rate.

Lbs. Per Acre To Be Applied	Volume To Be Collected (in 500 Feet)
(Broadcast Rate)	
20	6 1/2 oz.
25	7 1/2 oz.
30	9 1/2 oz.

Use plastic nursing bottle or other measuring container to settle the granules when taking a reading. Adjust the application equipment so that each spout dispenses the proper amount.

For broadcast (over-all treatment) — use broadcast applicators or fertilizer spreaders that can apply small amounts of granules evenly.

For band treatment — use applicators designed for this purpose. Calculate the amount of granules per acre needed for band treatment as follows:

$$\frac{\text{Band Width in Inches} \times \text{Recommended Over-all Rate}}{\text{Inches Between Crop Rows}} = \text{Pounds of Ramrod 20 needed per acre for band treatment}$$

For example: If 25 pounds per acre are recommended for over-all treatment and you wish to treat a band of 14 inches wide in crop rows spaced 38 inches apart:

$$\frac{14 \times 25}{38} = 9.2 \text{ pounds of granules needed per acre of crop for the band treatment}$$

For application of granular Ramrod 20 do not rely on settings used for other granular herbicides.

Storage and Disposal

Do not contaminate water, foodstuffs, seed or feed by storage and disposal.

DISPOSAL

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal.

the higher rate shown for your soil texture.

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	Less than 3% organic matter	More than 3% organic matter
Sand to Sandy Loam	20 lbs.	25 lbs.
Silt Loam	22 lbs.	27 lbs.
Clay Loam to Clay	25 lbs.	30 lbs.

Band Treatment (Behind Press Wheel) — Apply granular Ramrod 20 on soil surface after planting and prior to emergence of either crop or weeds. Use the higher broadcast rate for high organic % or in areas of heavy grass or broadleaf weed infestations. With the broadcast rate for your soil texture, the following table gives the pounds per acre needed for your row spacing.

Broadcast Rate / Acre	BAND TREATMENT			
	20 lbs.	22 lbs.	25 lbs.	30 lbs.
14" BAND ON VARIOUS ROW SPACINGS				
ROW SPACINGS IN ACRES	10 ACRES	15 ACRES	20 ACRES	30 ACRES
40	70	77	88	105
38	74	81	92	110
36	78	86	97	117
30	93	103	117	140

FOR LISTER OR DEEP FURROW PLANTED CORN.

Broadcast (over-all treatment) — Apply granular Ramrod 20 at the broadcast rate of 25 to 30 pounds per acre.

Band Treatment (Behind Press Wheel) — For a 7 inch band treatment over the row (38 inch spacing), apply 4.6 to 5.5 pounds of granular Ramrod 20 per acre.

If heavy rains follow application, the treatment on the top and sides of the furrow may not provide as good weed and grass control as that obtained in the bottom of the furrow.

FOR FURROW IRRIGATED CORN.

Granular Ramrod 20 must be incorporated into the soil by narrow finger weeder or rotary hoe for weed control on furrow irrigated land. Shallow incorporation of at least one-half inch but not more than 2 inches is most effective for weed control. Incorporation deeper than 2 inches will result in unsatisfactory weed control. If applied on very dry soil, irrigation is necessary to activate granular Ramrod 20. See the table above for recommended rates on various soil textures and levels of organic matter.

CORN (inbred)

SOTBEANS (to be grown for seed only)

Broadcast (over-all treatment) — Apply 20 to 25 pounds of granular Ramrod 20 per acre on soil surface after planting and prior to emergence of either crop or weeds. In areas of heavy grass or broadleaf weed infestations and on high organic matter soils, use 25 pounds per acre.

Band Treatment (Behind Press Wheel) — Apply granular Ramrod 20 on the soil surface after planting and prior to emergence of either crop or weeds. Use the higher rate for high organic soil or in areas of heavy grass or broadleaf weed infestations.

NOTE: Do not graze or feed sorghum (milo) forage or stlage from treated fields to dairy animals.

Do not use soybean seed for food, feed or oil purposes.

Do not graze or feed soybean forage from treated area.

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*Ramrod is a registered trademark of Monsanto Company.



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