Reg no: 7969-78 PM-25 1 of 10

Basagran® M-60

Postemergence Herbicide for Use in Rice

A soluble liquid formulation containing:

Active Ingredients:

Sodium salt of bentazon*.....	37.0%
Dimethylamine Salt of 2-methyl-4-chlorophenoxyacetic acid*	6.2%
Inert Ingredients.....	56.8%
TOTAL.....	100.0%

*Equivalent to 3.3 pounds per gallon bentazon (3-(1-methylethyl)-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide) and 0.5 pounds per gallon 2-methyl-4-chlorophenoxyacetic acid

ACCEPTED
FEB - 1 1989
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 7969-78

EPA Reg. No. 7969-

KEEP OUT OF REACH OF CHILDREN

WARNING

Causes substantial but temporary eye injury. Do not get in eyes, on skin or clothing. Harmful if swallowed. Wear safety glasses. Wash thoroughly with soap and water after handeling. Remove contaminated clothing and launder before reuse. May cause allergic skin response.

Statements of Practical Treatment

If in eyes: Hold eyelids open and flush with plenty of water for fifteen (15) minutes.

If swallowed: Drink promptly large quantities of milk, egg whites or gelatin solution or if these are not available 1 to 2 glasses of water. Avoid Alcohol. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

Net Contents 2 1/2 Gallons

BASF Corporation
Parsippany, New Jersey 07054

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

General Information

Basagran M60 applied postemergence is effective in controlling several broadleaved weeds and sedges (Cyperaceae). Grasses are not controlled. Basagran M60 has a contact effect as well as being translocated in the plant. Weeds must be thoroughly covered for maximum activity to occur. Large crop-and-weed leaf canopies shelter smaller weeds and prevent adequate spray coverage, and may reduce effectiveness.

Timing of Application

Apply Basagran M60 early postemergence when weeds are small and actively growing. Basagran M60 should be applied to rice having at least 3-4 leaves and a good root system up to end the tillering. Do not apply to rice in early seedling, boot or early heading stages.

Alternate Flooding Culture: In Texas, Louisiana, Arkansas and Mississippi, weed growth stages generally correspond to rice that is tillering (stooling) and occur prior to the permanent flood. Application of Basagran M60 must be made when there is no water on the field and 24 hours or more prior to flooding. If Basagran M60 cannot be applied until after flooding, see directions under Continuous Flooding Culture.

Continuous Flooding Culture: In California and in other states using continuous flooding culture or when treating after permanent flood, treatment should be made only when weeds are above the surface of the water. Weeds submerged at the time of application are not adequately controlled.

For early treatment, water may be partly or completely drained to expose more weed growth to spray applications of Basagran M60. Do not raise water level for at least 24 hours after application or unsatisfactory control may result. Do not use ground equipment for applications on flooded fields because splashing will wash the Basagran M60 off weed leaf surfaces and ineffective control may result.

California only: Avoid applications of Basagran M60 (a) during cold weather (day temperature below 75°F and night temperatures below 55°F for 2 to 5 days) as weed control may be reduced, or (b) when rapid temperature drops are forecast.

Water Volume and Spray Pressure

Ground equipment: Use a minimum of 20 gallons of water per acre and a minimum of 40 psi pressure (measured at the boom--not at the pump or in the line). When crop and weed foliage is dense use up to 50 gallons of water and up to 80 psi pressure. Use standard flat fan nozzles spaced 20 inches apart. Do not use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles. Do not spray if wind exceeds 8 mph.

Air equipment: Use a minimum of 10 gallons of water per acre and a maximum of 40 psi pressure. Use only diaphragm-type nozzles producing cone or fan spray patterns.

Aerial Application - Special Directions

To obtain uniform coverage and to avoid drift hazards, the following application equipment and practices should be used:

Nozzle height: Maximum of 10 feet above the crop.

Nozzle Orientation: Nozzles must be oriented so as to discharge straight back with the air stream (opposite the direction of travel of the aircraft) or at some angle between straight back and straight down. For optimal coverage when applying Basagran M60 by air in rice, orient all nozzles straight down.

Nozzles must not be located further out than three-fourths the distance from the center of the aircraft to the end of the wing or rotor.

Do not apply Basagran M60 by aircraft when wind is blowing at velocity more than 6 mph. Coarse sprays (larger droplets) are less likely to drift.

Do not apply Basagran M60 by air if ornamentals or sensitive non-target crops, such as cotton, sugar beets, sunflowers or okra are within 200 feet downwind.

In California, do not apply Basagran M60 by air within 200 feet of ornamentals or sensitive non-target crops, such as cotton, sugar beets, sunflowers, okra, grapes, tobacco, fruit trees, vegetables, flowers, ornamentals or other desirable plants.

Apply Basagran M60 in such a way to avoid drift hazards. Follow the use cautions found on this labeling and observe applicable state and local regulations and ordinances.

Use a smoke generator or other means near the site of application to determine direction and extent of air movement. Observation of air/smoke movement will help determine appropriate drift control measures needed or avoid application when smoke movement is toward nearby susceptible crops. Do not spray when wind is blowing towards susceptible crops.

Addition of Oil Concentrate to Spray Tank

A nonphytotoxic oil concentrate (commonly referred to as oil concentrate) should be added to the spray tank for certain weed problems as recommended. The oil concentrate must contain either a petroleum or vegetable oil base and must meet the following criteria: 1) be nonphytotoxic, 2) contain only EPA - exempt ingredients, 3) provide good mixing quality in the jar test (see below), and 4) be successful in local experience.

The exact composition of suitable products will vary, however, vegetable and petroleum oil concentrates should contain emulsifiers which provide good mixing quality. For vegetable oil concentrates, it has been observed that highly refined vegetable oils are more satisfactory than unrefined vegetable oils. For additional information see "Jar Test for Estimating Suitability of Oil Concentrates" at the end of this section.

Rate of Oil Concentrate:

Ground application - 2 pints/acre (maximum)
Air application - 2 pints/acre (maximum)

In California, when adding a nonphytotoxic oil (containing emulsifier) to the spray solution of Basagran M60/water, add at a range of 4 to 5% by volume (4-5 gallon/100 gallons spray solution) for each application by ground or air. The oil should have an unsulphonated residue rating of 90% or above.

Or, when adding oil concentrate in California, add at the maximum rate of 2 pints per acre for ground and aerial applications. Refer to section entitle Addition of Oil Concentrate to Spray Tank for additional information.

Mixing/Spraying: Fill tank of a thoroughly clean sprayer half to two-thirds full with clean water. Start agitation, add Basagran M60 and allow to mix thoroughly. Add oil concentrate (or nonphytotoxic oil) and remaining volume of water. Maintain constant agitation during application.

Jar Test for Estimating Suitability of Oil Concentrates

1. Water supply: Use only water from intended source and at the source temperature.

2. Amount of water in jar:
   Ground Application - For 20 gal/A spray volume use 3 3/4 cups (800 ml) of water.

   Air application - For 10 gal/A spray volume use 1 2/3 cup (400 ml) of water.

   For other spray volumes, adjust proportionately to above.

3. Amount of herbicide and oil concentrate to add: Add herbicide and oil concentrate at the rate of 1 teaspoon (5 ml) for each pint of recommended label rate.

4. Add components in following sequence, gently mixing between component additions:

   1) Basagran M60
   2) Oil concentrate or nonphytotoxic oil

5. Cap jar, invert 10 cycles, let stand for 15 minutes, evaluate.

6. Evaluation: An ideal tank mix combination will be uniform; thus, the suitability of the oil concentrate is questionable if any of the following are observed:

   Free oil at the surface - film or globules.

   Flocculation - fine particles which may be suspended in the liquid or found as a precipitated layer at the bottom of the jar.

   Clabbering - thickening texture (coagulated) resembling yogurt or a curd-like texture as with cottage cheese.

APPLICATION WEED SIZE AND RATE TABLE

Weeds Controlled	Basagran M60 Rate: 1.8 Pints Per Acre+ Weed Growth Stages				Basagran M60 Rate: 2.4 Pints Per Acre+ Weed Growth Stages			
	Drained Fields		Flooded Fields		Drained Fields		Flooded Fields	
	Leaf Stage	Max. Height	Max. Height Above Soil	Max. Height Range Above Water Level	Leaf Stage	Max. Height	Max. Height Above Soil	Max. Height Range Above Water Level
Cocklebur	2-10	10"	10"	3-6"	10-15	15"	15"	6-10"
Dayflower	2-10	6"	6"	3-5"	10-15	10"	10"	5-8"
Gooseweed	4-6	4"	Not Recommended		6-10	8"	Not Recommended	
Redweed	Up to 6	4"	Not Recommended		6-10	8"	Not Recommended	
Smartweed	2-10	6"	6"	3-5"	10-15	10"	10"	5-8"
Yellow Nutsedge	4-6	6"	6"	4-5"	6-8	10"	10"	6-8"
Ducksalad***	Not Recommended				6-10	6"	Not Recommended	
Redstem	Up to 6	4"	4"	2-3"	6-10	8"	8"	4-6"
Spikerush	2-6	6"	Not Recommended		6-8"	8"	Not Recommended	
Cal. Arrowhead (annual)	Not Recommended				Up to 4	7"	7"	5-6"
Gregg's Arrowhead (perennial)	Not Recommended				Up to 4	7"	7"	5-6"
River Bulrush	Not Recommended				6-8**	10-30"	10-30"	10-24"
Roughseed Bulrush	Not Recommended				2-4**	10"	10***	6-8"
Roundleaf Waterhyssop	Not Recommended				2-4	2-4"	floating	1-2"
Smallflower Umbrellaplant	Not Recommended				4-6**	8"	8***	6-8"

* Land preparation should be such that rhizomes are thoroughly cut up so there are no more than 2 tubers per rhizome section remaining. Apply Basagran M60 when 10-15% of the river bulrush plants are flowering.

** Apply Basagran M60 before weeds are flowering.

*** Control may be partial or inconsistent.

\+ If after the first application a second weed flush develops, re-treat according to this rate table.

RESTRICTIONS AND LIMITATIONS

Rice straw may be fed to livestock up to 7 days before slaughter.

Do not apply Basagran M60 to rice with ground equipment when field is flooded because splashing will wash Basagran M60 off weed leaf surfaces and ineffective control may result.

Do not apply more than 7.2 pints of Basagran per acre in one season. (Maximum of 4.8 pints per acre in first crop and 2.4 pints per acre in second (ratoon) crop.)

Vapors from this application may injure susceptible plants in the immediate vicinity. Do not apply when weather conditions favor drift from areas treated.

In California, do not apply Basagran M60 by air when temperature exceeds 90°F as reduced weed control may result and the potential for drift is increased.

Rainfall soon after application (within 8 hours) may nullify the effectiveness of Basagran M60.

Do not grow crayfish or catfish in rice fields treated with Basagran M60.

Do not use water containing Basagran M60 residues from rice cultivation to irrigate crops other than soybeans, corn, grain sorghum, peas (dry or succulent), beans (dry or succulent), peanuts or mint.

Clean sprayer thoroughly prior to application of Basagran M60, particularly if a herbicide was used which has the potential to injure the crop to be sprayed with Basagran M60.

Spray equipment used in this application should be thoroughly cleaned before using for any other purpose.

ENVIRONMENTAL HAZARDS

Do not apply directly to lakes, ponds or streams.

Do not contaminate water by cleaning of equipment or disposal wastes.

STORAGE AND DISPOSAL

Do not allow product to freeze.

Do not contaminate water, food, or feed by storage or disposal.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Triple rinse container (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Do not reuse empty container.

Appendix

The following are scientific names for the weeds listed on this label.

Common Name	Scientific Name
Arrowhead, California (annual)	Sagittaria montevidensis
Arrowhead, Gregg's (perennial)	Sagittaria longiloba
Cocklebur	Xanthium strumarium
Dayflower	Commelina spp.
Ducksalad	Heteranthera limosa
Gooseweed	Sphenoclea zeylanica
Redstem	Ammania auriculata
Redweed	Melochia corchorifolia
River bulrush	Scirpus fluviatilis
Smartweed	Polygonum spp.
Roughleaf waterhyssop	Bacopa rotundifolia
Smallflower umbrellaplant	Cyperus difformis
Spikerush	Eleocharis species
Yellow nutsedge	Cyperus esculentus

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 other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION "BASF" or the Seller. All such risks shall be assumed by the Buyer.

BASF 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. BASF MAKES NO OTHER EXPRESS OR IMPLED WARRANTY OF FITNESS OR MERCHANTABILITY OF ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USF OF HANDLING OF THIS PRODUCT. BASF 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 BASF.

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