



BASF
The Chemical Company

Basagran®

Reg. No 92-C-84-3

NET VOLUME:

5 LITRES



POISON
AVOID BREATHING VAPOUR

Composition:

Active ingredient: bendioxide

Inert ingredient:

Chemical Group: Thiasdiasine

(mass / vol)

480g /L

520g /L

A WATER SOLUBLE SOLUTION CONTACT HERBICIDE FOR THE POST-EMERGENCE CONTROL OF CERTAIN BROADLEAF WEEDS AND YELLOW NUTSEdge IN BEANS, GROUNDNUTS, SOYABEANS, PEAS, MAIZE, SORGHUM, SMALL GRAIN, SUGARCANE AND OTHER CROPS.

Registered by:

Pivotal Agro-Services (Pvt) Ltd
Agriculture House, Adylinn Road, Marlborough
PO Box WGT 450, Westgate, Harare
Tel: (263-4) 309800 – 18, Fax / Direct Line: (263-4) 309825

Manufactured by

BASF AG, 67056 Ludwigshafen – Germany

Batch No :

Date of Manufacture :

Expiry Date :

® Registered Trademark for BASF

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TO CAUSE HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE

READ THE LABEL BEFORE USING THE PRODUCT

WARNINGS

1. Poisonous when swallowed.
2. May cause skin- or eye irritation.
3. Store in original container in a cool dry place away from food, feed and seed.
4. Keep out of reach of children, uninformed persons and animals.
5. Prevent spray drift onto other susceptible crops,
6. Crop injury may occur if land treated with a mixture of **BASAGRAN**[®] and Atrazine is planted to any crop other than maize in the same season. Read the Atrazine label for use restrictions.
7. **BASAGRAN**[®] should preferably not be applied to leguminous crops that were planted with an organophosphate insecticide, as a combination of these products may cause damage to the crop. Consult the supplier for advice.
8. Under no conditions should a surfactant/sticker be added to Basagran for application in soyabeans, peas, beans or sorghum.

WARRANTY: Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of weeds against the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned, due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS

1. Handle with care avoid splashing and contact with skin
2. Wear suitable protective clothing
3. Do not inhale fumes or spray mist.
4. Wash after accidental skin contact.
5. Do not eat, drink or smoke while using and before washing hands and face or change of clothing.
6. Prevent contamination of food, feed, drinking water and eating utensils.
7. DO NOT CONTAMINATE grazing, rivers and dams or other sources of water supply.
8. Wash out applicator thoroughly with clean water before using with other remedies.





9. Rinse empty container three times with a volume of water equal to at least one tenth of that of the container and add the rinsings to the content of the spray tank before disposing of the container in the prescribed manner.
10. Destroy empty container by perforation and flattening and NEVER use for any other purpose.

USE RESTRICTIONS

1. Do not use BASAGRAN® if danger of frost is imminent and / or if the crop is under cold stress.
2. Grasses and Red nutsedge (*Cyperus rotundus*) are not controlled with BASAGRAN®.

First-Aid Measures

General advice:

Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

If inhaled:	Keep patient calm, remove to fresh air, seek medical attention
On skin contact	After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention
On contact with eyes	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
On ingestion:	Do not induce vomiting unless told to by a poison control centre or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Rinse mouth and then drink plenty of water.

Note to physician: Treatment: Treat symptomatically (decontamination and vital signs). No known specific antidote.

Liquid aspirated in to the respiratory tract may cause bronchopneumonia or pulmonary edema





DIRECTIONS FOR USE:

USE ONLY AS DIRECTED.

Compatibility: **BASAGRAN**[®] is compatible with Atrazine. It is however always recommended that the compatibility of **BASAGRAN**[®] with other herbicides, insecticides and adjuvants, have to be tested on a small scale, before it is used in spray mixtures"

Application

1. Apply **BASAGRAN**[®] early post-emergence when weeds are young (2-4 leaf stage) and growing actively.
2. **BASAGRAN**[®] is a contact herbicide, therefore thorough wetting of the weeds is essential. Basagran has no residual action on the soil and will not control weeds, nutsedge, tubers, which have not germinated at the time of spraying, therefore late germinating weeds require re-spraying.
3. Rainfall or overhead irrigation within 8 hours after application may nullify the effect of **BASAGRAN**[®].
4. Apply **BASAGRAN**[®] in a minimum of 300L water per hectare using hollow cone or flat fan nozzles with a minimum spray pressure of 350 kPa.
5. Warm and humid weather conditions are necessary for good weed control. Drought conditions before, during and after application will result in poor weed control.

NOTE 1

Yellow nutsedge control

Control of yellow nutsedge (*Cyperus esculentus*) can only be achieved if favourable conditions prevail before and during the time of spraying, i.e. warm, humid weather (relative humidity not under 65%) and adequate soil moisture for optimum plant growth. The majority of yellow nutsedge plants should be beyond the 4-leaf stage at the time of spraying. A minimum rate of 3L **BASAGRAN**[®]/ ha should be sprayed in not less than 300L water. On dense stands of nutsedge in maize, grain sorghum, and groundnuts (not soyabeans and peas), the rate of **BASAGRAN**[®] must be increased to 4L/ha and in extreme cases to 5L/ha and 500L/ ha water must be used. Under these conditions, the use of hollow cone nozzles and a spray pressure of 500 kPa is recommended and the addition of a surfactant/sticker is advisable.

The duration of control obtained is dependent on the state of germination of yellow nutsedge and on the conditions prevailing before, during and after the spray operation, as described above.

A second application of BASAGRAN[®] will be necessary if regrowth (second flush) of yellow nutsedge occurs.

Spot treatments can be carried out with a mixture of 1L **BASAGRAN**[®] in 100L water (1%) if conditions are favourable, as described above. Ensure thorough wetting of plants, but do not exceed the dosage rate per area, as recommended in the **APPLICATION TABLES**.





Under less favourable conditions yellow nutsedge will only be suppressed and re-growth might occur. In this case a second application of **BASAGRAN**® at 7–10 days after the first application may be necessary. Under these conditions the addition of a surfactant/sticker, is advisable.

Under adverse conditions, e.g. drought, cold weather, dry windy conditions and low air humidity, **BASAGRAN**® will not control yellow nutsedge.

NOTE 2

- If growing conditions are extremely favourable, the following weeds can be effectively controlled with **BASAGRAN**® at 2.0L/ ha if they have not reached the 4-leaf stage:

WEED	COMMON NAME
<i>Acanthospermum hispidum</i>	Upright starbur
<i>Bidens pilosa</i>	Common blackjack
<i>Datura ferox</i>	Large thorn apple
<i>Datura stramonium</i>	Common thorn apple
<i>Nicandra physalodes</i>	Apple of Peru
<i>Xanthium strumarium</i>	Cocklebur

NOTE 3

- The degree of control of the following weeds can vary considerably, according to local conditions:

WEED	COMMON NAME
<i>Commelina benghalensis</i>	Wandering Jew
<i>Richardia brasiliensis</i>	Mexican clover
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Tribulus terrestris</i>	Devils thorn

Improved control of the weeds mentioned here above in maize and grain sorghum can be obtained by adding Atrazine to the **BASAGRAN**® spray mixture according to the recommendations in the **APPLICATION TABLE** for **BASAGRAN**® + Atrazine.





APPLICATION TABLE FOR BASAGRAN® ONLY

CROP	WEED TYPE	DOSAGE	REMARKS
BEANS (Dry beans, *green beans)	See WARNINGS Broadleaf weeds	2-3L / ha	Use 2L/ ha before beans have reached the second trifoliolate leaf stage, thereafter up to 3L/ ha may be sprayed. Do not spray before the first trifoliolate leaf is fully expanded. BASAGRAN® may cause transient scorch on beans that can be prolonged with the later applications, but will have no depressing effect on the yields. * Note: Green beans must not be sprayed under weather conditions with a very high sun intensity, with more than 2L/ ha BASAGRAN® , as higher rates may cause crop damage.
	Yellow nutsedge	3L/ ha	Refer to NOTE 1 Yellow nutsedge control . The rate of 3L/ ha must not be exceeded as higher rates may cause crop damage.
LAWNS	Yellow nutsedge	80ml/ 100m ²	For control of yellow nutsedge, apply 80ml in a convenient volume of water to cover 100m ² . Do not mow for at least four days before application and at least four days after application. The lawn should be well watered and fertilized in advance so that the weeds are growing actively
MAIZE, SORGHUM, OATS, WHEAT, BARLEY, RICE, SUGARCANE, and other grass crops	Broadleaf weeds	3.0L /ha	BASAGRAN® may be sprayed on cereals at any stage of their development, provided that weed growth corresponds to the growth stage as listed in the APPLICATION TABLE .
	Yellow nutsedge	3-5L /ha	For information refer to NOTE 1 Yellow nutsedge control .
GROUNDNUTS See WARNINGS	Broadleaf weeds	2-3L /ha	Apply BASAGRAN® from the first trifoliolate leaf stage onwards. A second application may be made if there are problems with late germinating weeds.
	Yellow nutsedge	3-5L/ha	For information refer to NOTE 1 Yellow nutsedge control .





SOYABEANS See WARNINGS	Broadleaf weeds	2-3 L/ha	Apply BASAGRAN ® from the second trifoliolate leaf on wards. A second application may be made if there are problems with late germinating weeds. BASAGRAN ® may cause transient scorch on soyabeans that can be prolonged with the later applications but will not have a depressing effect on yields. The rate of 3.0L/ha must not be exceeded as higher rates can cause
	Yellow nutsedge	3L/ ha	Refer to NOTE 1 Yellow nutsedge control . The rate of 3L/ha per application must not be exceeded as higher rates can cause crop damage.

CROP	Weed type	DOSAGE	REMARKS
PEAS	Broadleaf weeds	3.0 L/ ha	BASAGRAN ® may be sprayed on peas when they are 50-150mm high, provided that weed growth corresponds to the growth stage as listed in the APPLICATION TABLE . Do not use BASAGRAN ® on frost-damaged peas and/or if crop is under stress (cold, drought) or if frost is expected.
	Yellow nutsedge	3.0 L/ha	For information refer to NOTE 1 Yellow nutsedge control . The rate of 3L/ha per application must not be exceeded as higher rates can cause crop damage.

APPLICATION TABLE for **BASAGRAN**® + atrazine

CROP	SOIL TYPE	DOSAGE L / HA	REMARKS
MAIZE Broadleaf weeds	All types	2L BASAGRAN ® + 2L Atrazine 500g/L	Apply recommended mixture for better control of Pigweed, Mexican richardia, Dwarf marigold and Common dubbeltjie. Refer to WARNINGS on this label and USE RESTRICTIONS on the Atrazine label.
GRAIN SORGHUM Broadleaf weeds	Only on soils with more than 16% clay	2L BASAGRAN ® + 2L atrazine 500 g/L	





WEEDS CONTROLLED BY BASAGRAN®

BOTANICAL NAME	COMMON NAME	NOTE NUMBER	LEAF STAGE
<i>Acanthospermum hispidum</i>	Upright starbur	NOTE 2	8
<i>Argemone subfusiformis</i>	Mexican poppy		6
<i>Bidens pilosa</i>	Common blackjack	NOTE 2	6
<i>Chenopodium album</i>	White goosefoot		4
<i>Cleome monophylla</i>	Single-leaved cleome		6
<i>Commelina benghalensis</i>	Wondering jew	NOTE3	4
<i>Datura stramonium</i>	Common thorn apple	NOTE 2	8
<i>Datura ferox</i>	Large thorn apple	NOTE 2	8
<i>Galinisoga parviflora</i>	Small-flowered quickweed		6
<i>Hibiscus trionum</i>	Bladder hibiscus		6
<i>Ipomoea purpurea</i>	Morning glory		4
<i>Nicandra physaloides</i>	Apple of Peru	NOTE 2	6
<i>Portulaca oleracea</i>	Common purslane		6
<i>Raphanus raphanistrum</i>	Wild radish		6
<i>Richardia brasiliensis</i>	Mexican richardia	NOTE 3	2
<i>Schkuhria pinnata</i>	Dwarf marigold	NOTE 3	4
<i>Senecio consanguineus</i>	Rag wort		6
<i>Sida spinosa</i>	Sida		6
<i>Tagetes minuta</i>	Tall khaki weed		6
<i>Tribulus terrestris</i>	Common dubbeltjie	NOTE 3	6
<i>Xanthium strumarium</i>	Large cockle bur	NOTE 2	6





**ADDITIONAL WEEDS CONTROLLED BY A TANK MIXTURE OF BASAGRAN® + ATRAZINE
500 g / l SC**

ONLY MAIZE AND GRAIN SORGHUM		DOSAGE 2L/ha + 2L/ha
BOTANICAL NAME	COMMON NAME	LEAF STAGE
<i>Amaranthus deflexus</i>	Pigweed	4
<i>Amaranthus hybrids</i>	Cape pigweed	4
<i>Amaranthus spinosus</i>	Thorny pigweed	4

CONTROL OF THE FOLLOWING WEEDS WILL BE IMPROVED BY THE TANK MIXTURE

ONLY MAIZE AND GRAIN SORGHUM		DOSAGE 2L/ha + 2L/ha
BOTANICAL NAME	COMMON NAME	LEAF STAGE
<i>Richardia brasiliensis</i>	Mexican richardia	4
<i>Schkuhria pinnata</i>	Dwarf marigold	4
<i>Tribulus terrestris</i>	Common dubbeltjie	4





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5 LITRES



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Active ingredient: bendioxide

Inert ingredient:

Chemical Group: Thiasdiasine

(mass / vol)
480g /L
520g /L

A WATER SOLUBLE SOLUTION CONTACT HERBICIDE FOR THE POST-EMERGENCE CONTROL OF CERTAIN BROADLEAF WEEDS AND YELLOW NUTSEdge IN BEANS, GROUNDNUTS, SOYABEANS, PEAS, MAIZE, SORGHUM, SMALL GRAIN, SUGARCANE AND OTHER CROPS.

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