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Basagran®

A water soluble solution contact herbicide for the post-emergence control of certain broadleaf weeds and yellow nutsedge in beans, groundnuts, soyabeans, peas, maize, grain sorghum, sugarcane and small grains.

GROUP	C3	HERBICIDE
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Active ingredients: bentazon 480g/L

HAZARD STATEMENT

Toxic if swallowed
Causes skin irritation
Causes serious eye damage
Harmful if inhaled
Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

Wear protective gloves and eye/face protection
Do not breathe mist or vapour
Take off contaminated clothing and wash before reuse

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ZEMA PRODUCT NUMBER: .



Warning



NET VOLUME: **5** Litres

® = Registered trademark of BASF

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WARNING



READ THE LABEL BEFORE USING THE PRODUCT

WARRANTY: Although this remedy has been 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 climatic- and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the disease, weed or pest, 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 the failure of the user to follow the label instructions or the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

WARNINGS:

- Poisonous when swallowed.
- May cause skin or eye irritation.
- Store in a cool dry place away from food, feed and seed.
- Keep out of reach of children, uninformed persons and animals.
- 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.
- 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.

PRECAUTIONS:

- Do not inhale fumes or spray mist.
- Wash after accidental skin contact.
- Do not eat, drink or smoke while using and before washing hands and face or change of clothing.
- Prevent spray drift onto other susceptible crops, grazing, rivers and dams.
- Wash out applicator with clean water before using with other remedies.
- 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.
- Destroy empty container by perforation and flattening and never use for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

USE RESTRICTIONS:

Do not use Basagran® if danger of frost is imminent and/or if the crop is under cold stress.

Grasses and Purple 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 and 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: 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 center 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: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

COMPATIBILITY

Basagran® is compatible with Atrazine 500g/L SC.

MIXING INSTRUCTIONS:

Half fill the spray tank with clean water. Shake the Basagran® container well. Measure the required volume of Basagran® and pre-mix this with at least 10 L of water before adding to the spray tank. Fill the spray tank with water to the required level while maintaining agitation to ensure thorough mixing of the spray mixture before spraying commences. Maintain agitation while spraying. The prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

APPLICATION INSTRUCTIONS:

Apply Basagran® early post-emergence when weeds are young and growing actively. Basagran® is a contact herbicide, therefore thorough wetting of the weeds is essential. Rainfall or overhead irrigation within 8 hours after application may nullify the effect of Basagran®. Apply Basagran® in a minimum of 300L water per hectare. Use hollow cone – or flat fan nozzles with a minimum spray pressure of 350kPa.

Recommendations for broadleaf weed control

- Warm and humid weather conditions are necessary for good weed control. Drought conditions before, during and after application will result in poor weed control.
- Weeds and nutsedge tubers, which have not germinated at the time of spraying, will not be controlled, therefore late germinating weeds require re-spraying.

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, potatoes and groundnuts, 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 500kPa 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 a second flush of yellow nutsedge has to be controlled or if regrowth 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 1,5L/ha if they have not reached the 4-leaf stage:

Scientific Name	Common Name
Acanthospermum hispidum	Upright starbur
Bidens pilosa	Common blackjack
Datura ferox	Large thorn apple
Datura stramonium	Common thorn apple
Nicandra physalodes	Apple of Peru
Xanthium strumarium	Cocklebur

NOTE 3

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

Scientific Name	COMMON NAME
Commelina benghalensis	Bengal wandering Jew
Richardia brasiliensis	Mexican richardia
Schkuhria pinnata	Dwarf marigold
Tribulus terrestris	Common dubbeltjie

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® and Atrazine.

WEEDS CONTROLLED BY Basagran®

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 2-trifoliate leaf stage, thereafter up to 3 L/ha may be sprayed. Do not spray before the 1st trifoliate 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 – In the inland regions and especially under weather conditions with a very high sun intensity, Green beans must not be sprayed with more than 2 L/ha Basagran® as higher rates may cause crop damage.
	Yellow nutsedge	3L/ha	For information refer to NOTE 1 Yellow nutsedge control. The rate of 3 L/ha must not be exceeded as higher rates may cause crop damage.
Maize, Wheat, Sorghum, Sugarcane and other small grain crops	Broadleaf weeds	2–3L/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 1st trifoliate 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	2–3L/ha	Apply Basagran® from the second trifoliate leaf onwards. A second application may be made if there are late germinating weeds. Basagran® may cause transient scorch on soyabeans that can be prolonged, but will not affect yield.
	Yellow nutsedge	3L/ha	For information refer to NOTE 1 Yellow nutsedge control. The rate of 3 L/ha per application must not be exceeded as higher rates can cause crop damage

CROP	WEED TYPE	DOSAGE	REMARKS
Peas	Broadleaf weeds	2–3L/ha	Basagran® may be sprayed on peas when they are 50–150 mm 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 L/ha	For information refer to NOTE 1 Yellow nutsedge control. The rate of 3 L/ha per application must not be exceeded as higher rates can cause crop damage.

ADDITIONAL WEEDS CONTROLLED BY A TANK MIXTURE OF Basagran® + ATRAZINE 500 g / I SC

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

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

Scientific Name	Common Name	NOTE NUMBER	LEAF STAGE	
			2L/ha	3L/ha
Acanthospermum hispidum	Upright starbur	NOTE 2	6	8
Argemone subfusiformis	Mexican poppy		4	6
Bidens pilosa	Common blackjack	NOTE 2	4	6
Chenopodium album	White goosefoot		2	4
Cleome monophylla	Single-leaved cleome		4	6
Commelina benghalensis	Wandering jew	NOTE 3	—	4
Datura stramonium	Common thorn apple	NOTE 2	6	8
Datura ferox	Large thorn apple	NOTE 2	6	8

Scientific Name	Common Name	NOTE NUMBER	LEAF STAGE	
			2L/ha	3L/ha
<i>Galinsoga parviflora</i>	Small-flowered quickweed		4	6
<i>Hibiscus trionum</i>	Bladder hibiscus		4	6
<i>Ipomoea purpurea</i>	Morning glory		—	4
<i>Nicandra physaloides</i>	Apple of Peru	NOTE 2	4	6
<i>Portulaca oleracea</i>	Common purslane		4	6
<i>Raphanus raphanistrum</i>	Wild radish		4	6
<i>Richardia brasiliensis</i>	Mexican richardia	NOTE 3	—	2
<i>Schkuhria pinnata</i>	Dwarf marigold	NOTE 3	2	4
<i>Senecio consanguineus</i>	Rag wort		4	6
<i>Sida spinosa</i>	Sida		4	6
<i>Tagetes minuta</i>	Tall khaki weed		4	6
<i>Tribulus terrestris</i>	Common dubbeltjie	NOTE 3	2	4
<i>Xanthium strumarium</i>	Large cockle bur	NOTE 2	6	8

TABLE FOR BASAGRAN® ONLY

ONLY MAIZE AND GRAIN SORGHUM DOSAGE			
Scientific Name	Common Name	DOSAGE 2L/ha +2L/ha	
		LEAF STAGE	
<i>Amaranthus deflexus</i>	Pigweed	4	
<i>Amaranthus hybridus</i>	Cape pigweed	4	
<i>Amaranthus spinosus</i>	Thorny pigweed	4	